

CLEMSON NEWSLETTER

INFORMATION FOR THE STAFF OF CLEMSON UNIVERSITY

Vol. 7 No. 1

August 15, 1967

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SOUTH CAROLINA ROOM

CALENDAR OF CAMPUS EVENTS -- 1967-1968

SEP 1 1967

Aug. 16	W	8:00 a.m.	New Faculty and Staff Orientation Meet at Plant and Animal Science Auditorium
Aug. 16	W	6:30 p.m.	President's Dinner for New Faculty & Staff Clemson Room, Clemson House
Aug. 16	W	10:00 a.m.	"Y" Camp - Camp Greenville
Aug. 17	Th	1:00-5:00 p.m.	Matriculation, New Students Tillman Hall
Aug. 18	F	8:00-4:00 p.m.	Matriculation, New Students Tillman Hall
Aug. 18	F	10:30 a.m.	General Faculty & Staff Meeting Chemistry Auditorium
Aug. 18	F	12:15 p.m.	Luncheon for Honors Program Students Clemson Room, Clemson House
Aug. 18	F	6:00 p.m.	Freshman Picnic President's Home (in event of rain - Field House)
Aug. 19	Sat	8:30 a.m.	New Student Orientation--Welcome and Assignment to Faculty Advisers Tillman Hall Auditorium
Aug. 19	Sat	8:00-noon	Matriculation, Current Students - Tillman Hall
Aug. 19	Sat	1:30-4:00 p.m.	New Student Orientation
Aug. 19	Sat	7:00 p.m.	Church Night for New Students Community Churches
Aug. 19	Sat	9:30-11:30 p.m.	Dance (All Students) - The Barn
Aug. 20	Sun	1:30-5:00 p.m.	Matriculation - Current Students - Tillman Hall
Aug. 20	Sun	6:30 p.m.	Walking Tour of Campus, New Students Start from Tillman Hall
Aug. 20	Sun	7:00 p.m.	Open House - Student Center

Aug. 21	M	8:00-12:00 1:00-5:00 p.m.	Registration Arts and Sciences Classroom Building
Aug. 21	M	8:00 p.m.	Concert - The Tams - Amphitheater
Aug. 22	T	8:00-12:00	Registration Arts and Sciences Classroom Building
Aug. 22	T	4:00 p.m.	Faculty Research Council, Room I, Physics Bldg.
Aug. 22	T	8:00 p.m.	Dance - The Barn
Aug. 23	W		Classes begin (abbreviated schedule)
Aug. 24	Th	8:00-9:30 p.m.	President and Mrs. Edwards "At Home" to Faculty, Staff and People of Community
Aug. 26	Sat	8:00-12:00	Opening Mixer - Dining Hall
Aug. 30	W	8:00 p.m.	Fine Arts Film Club - JULES AND JIM Civil Engineering Auditorium
Sept. 4	M	9:00 a.m.	Educational Council Meeting
Sept. 7	Th	3:30 p.m.	Woman's Club Reception for Newcomers Clemson House
Sept. 20	W	8:00 p.m.	Fine Arts Film Club - NATIONAL STUDENT FILM FESTIVAL - Civil Engineering Auditorium
Sept. 22-23	F-Sat		Rat Hop - Dining Hall
Sept. 23	Sat	2:00 p.m.	Football - Wake Forest at Clemson (Band and Youth Day)
Sept. 30	Sat	2:00 p.m.	Football - Georgia at Clemson IPTAY and High School Visitation Day
Oct. 5	Th		Woman's Club - Clemson House
Oct. 6	F	3:00 p.m.	Freshman Football - Georgia at Clemson
Oct. 11	W	8:00 p.m.	Fine Arts Film Club - KIND HEARTS AND CORONETS - LANDSCAPE OF THE BODY CE Auditorium
Oct. 20	F	3:00 p.m.	Freshman Football - South Carolina at Clemson
Oct. 24	T		Graduate Record Examination (All Seniors)
Oct. 26	Th	8:00 p.m.	Concert - Czech Philharmonic Orchestra Field House
Oct. 27-28	F-Sat		Autumn Ball - Dining Hall
Oct. 27	F	3:00 p.m.	Freshman Football - Georgia Tech at Clemson
Oct. 28	Sat	2:00 p.m.	Football - Alabama at Clemson

Nov. 1	W	8 p.m.	Fine Arts Film Club - TRIUMPH OF THE WILL - NIGHT AND DAY CE Auditorium
Nov. 2	Th	8:00 p.m.	Woman's Club, Clemson House
Nov. 6	M	8:00 p.m.	Concert - Orchestra Da Camera Accademia Musicale Napoletana -- Field House
Nov. 10	F	6:45 p.m.	Tigerama
Nov. 10-11	F-Sat		Homecoming Dances - Dining Hall
Nov. 11	Sat	2:00 p.m.	Football - University of Maryland at Clemson Homecoming
Nov. 15	W	8:00 p.m.	Fine Arts Film Club - BICYCLE THIEF CE Auditorium
Nov. 18	Sat	2:00 p.m.	Football - N. C. State at Clemson
Nov. 23-25	Th-Sat		Thanksgiving Holidays
Nov. 25	Sat	2:00 p.m.	Football - South Carolina Game in Columbia
Dec. 4	M	9:00 a.m.	Educational Council Meeting
Dec. 4	M	8:00 p.m.	Concert - Byron Janis - Field House
Dec. 6	W		Reading Day
Dec. 6	W	8:00 p.m.	Fine Arts Film Club - THE SEVENTH VEIL CE Auditorium
Dec. 7	Th		Examinations Begin
Dec. 7	Th		Woman's Club, Clemson House
Dec. 15	F		Faculty Meeting
Dec. 16	Sat	11:00 a.m.	Commissioning Exercises - Tillman Hall Auditorium
Dec. 16	Sat	3:00 p.m.	Graduation - Tillman Hall Auditorium
Dec. 29-30	F-Sat		Poinsettia Classic in Greenville
Jan. 2	T		Matriculation, New Students - Tillman Hall
Jan. 4-5	Th-F		Registration, All Students
Jan. 4	Th		Basketball - Furman at Clemson
Jan. 4	Th		Woman's Club, Clemson House
Jan. 6	Sat		Classes Begin (abbreviated schedule)
Jan. 6	Sat		Basketball - South Carolina at Clemson

Jan. 11	Th		Basketball - Virginia at Clemson
Jan. 13	Sat		Basketball - North Carolina at Clemson
Jan. 15	M		Basketball - Maryland at Clemson
Jan. 16-18	T, W, Th		Religious Emphasis Week
Jan. 20	Sat		Basketball - Virginia (there) - To be televised
Jan. 27	Sat		Basketball - Virginia Tech at Clemson
Jan. 30	T		Basketball - Wake Forest at Clemson
Feb. 1	Th		Woman's Club, Clemson House
Feb. 2-3	F-Sat		Midwinter Dances - Dining Hall
Feb. 6	T	8:00 p.m.	Concert - John Shirley-Quirk - Field House
Feb. 16-17	F-Sat		North-South Classic - Basketball - in Charlotte
Feb. 20	T		Basketball - Duke at Clemson
Feb. 22	Th	8:00 p.m.	Concert - American Folk Ballet - Field House
Feb. 28	W		Basketball - Georgia Tech at Clemson
Mar. 1	F		Military Ball
Mar. 2	Sat		Spring Hop - Dining Hall
Mar. 7	Th		Woman's Club, Clemson House
Mar. 7-9	Th-Sat		ACC Tournament at Charlotte
Mar. 7	Th	Matinee 8:00 p.m.	Concert - U. S. Navy Band Field House
Mar. 9	Sat	Noon	Spring Holidays Begin
Mar. 18	M		Classes Resume
Mar. 19- Apr. 23	T	7:00 p.m.	Continuing Education Classes
Mar. 20-22	W-F		Board of Visitors
Apr. 1-6	M-Sat		Clemson Week Around the World
Apr. 3	W		Honors & Awards Day (classes suspended at noon)
Apr. 4	Th	1:00 p.m.	Woman's Club Luncheon, Clemson House
Apr. 5	F		Taps Ball
Apr. 6	Sat		Junior-Senior - Dining Hall

Buckram No. AAB 598	Rub Enclosed
Pamphlet No.	New Title; Keep Rub
Tip	Do Not Keep Rub
Tpc	Stub For
Index	Use Bench Sewing
Bind	Refold Plates
in	Before Trimming
Strip Ads in all but 1st No.	Mount on Guards
Strip Ads in all Nos.	Book Rate
Special Instructions	

USE GOLD LETTERING
SEE RUB FOR DUPLICATE VOLUME 2

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This Volume Lacks Letter Spine Exactly
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CLEMSON

NEWSLETTER

7-8
AUG. 15, 1967-
MAY 1, 1969

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NOTE

and speakers. The secretary or president should send this information to the Dean of the University Office by the 8th and 23rd of each month so that it can be inserted into the calendar. A yearly schedule may be sent and it will be used when appropriate.

FACULTY BASIC RESEARCH GRANTS

Applications are now being received by the Faculty Basic Research Committee for grants to faculty members to support research. Grants are made for publication as well as for research. Due to budgetary limitations the Committee has utilized funds for support in areas where other grants are not available, and also as "starter" grants to assist faculty members to initiate research which may later be funded by an off-campus agency. A grant proposal should include the title of the proposed research, the name of the applicant, the objective of the research, a brief description of the procedures anticipated and a realistic budget. Applications may be sent to the Dean of the Graduate School, and must have the approval of the Department Head.

Apr. 6	Sat		Spring Football Game
Apr. 11	Th		ROTC Recognition Day
Apr. 23	T		Reading Day
Apr. 24	W		Examinations Begin
May 3	F		Faculty Meeting to consider candidates for graduation
May 4	Sat	11:00 a.m.	Commissioning Exercises - Tillman Hall Auditorium
May 4	Sat	2:30-3:30 p.m.	President's Reception for Graduates and their Families - President's Home
May 4	Sat	5:00 p.m.	Graduation - Amphitheatre
May 13- June 20			First Summer Session
June 7-9	F-Sun		Alumni Weekend
June 24- Aug. 1			Second Summer Session
Aug. 3			Graduation

Note: Lecture dates will be announced in the "Clemson Newsletter."

NOTE TO CAMPUS CLUBS AND ORGANIZATIONS

The Newsletter Calendar will be glad to carry individual meeting dates, places, and speakers. The secretary or president should send this information to the Dean of the University Office by the 8th and 23rd of each month so that it can be inserted into the calendar. A yearly schedule may be sent and it will be used when appropriate.

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OFFICE OF UNIVERSITY RESEARCH

The primary purpose of this office is to assist in developing the full research potential of the institution. To that end, information on the various agencies which support research will be available and every effort will be made to keep this material current.

Faculty members who are contemplating submitting grant proposals are encouraged to discuss proposals with the Office of Research prior to putting them in final form. (This is especially applicable to the individual who does not have experience in writing proposals, and who is not familiar with the policies of the granting agencies).

A third function of the Office of University Research will consist of periodic dissemination of information concerning research. This may be done in the Newsletter or by memoranda to those thought to be most intimately concerned.

Only if the faculty and staff avail themselves of the services provided by the Office of University Research can this office function as intended.

Director of the Office of University Research is Dr. F. I. Brownley, Jr., the Assistant Director is Dr. R. W. Henningson, and the office is in Room 17, Tillman Hall.

ALUMNI ASSOCIATION COMPLETES NEW "ALUMNI HOME MOVIE"

Requests from campus people for an opportunity to view the Alumni Association's new "home movie" entitled THE PASSING YEARS has prompted a scheduled showing at 4:45 p.m. Wednesday, August 23, in the Olin Hall (Ceramic Engineering) auditorium. The number of showings will depend upon the number of people who "show up." To minimize distractions for viewers, doors will be closed promptly at 4:45 "until the next show."

THE PASSING YEARS is a 25-minute 8 mm color-sound documentary produced principally for alumni consumption and deals mainly with the University's physical development and progress of the past decade. The film was produced in its entirety by the alumni staff and does not purport to be anything more than a slightly glorified "home movie."

UNIVERSITY BOWLING LEAGUE, 1967-68

The University Bowling League will start its 1967-68 season on August 30, 1967. The League will play every Wednesday evening at 6:30 p.m. at the Timber Lanes in Seneca. Staff members and graduate students who like to bowl, whether frequently or infrequently, are urged to contact J. J. Janzen (DySci), Forrest Woods (Physics) or J. T. Long (EE) prior to Wednesday, August 30, 1967.

FACULTY SENATE ROSTER 1967-1968

<u>Name</u>	<u>Dept.</u>	<u>Campus Address</u>	<u>Telephone</u>	<u>Term Ends</u>
<u>AGRICULTURE AND BIOLOGICAL SCIENCES</u>				
E. B. Eskew	Agron.	205 P&AS	297	1968
T. L. Senn	Hort.	162 P&AS	220	1968
J. B. Whitney	Bot.	218 Long	329	1968
J. K. Reed	Ent.	301 Long	308	1969
W. C. Godley	Ani. Sci.	213 P&AS	286	1970
J. R. Warner	For.	151 P&AS	373	1970

ARCHITECTURE

J. E. Pinckney	-----	116 Arch.	228	1968
R. T. Reep	-----	110 Arch.	228	1968
V. S. Hodges	-----	115 Arch.	228	1970

ARTS AND SCIENCES

A. T. Hind	Math	0-109 Classroom	387	1968
Miss Harriet Holman	Engl.	0-225 Classroom	383	1968
H. G. Spencer	Chem.	109 Brackett	239	1968
M. S. Steadman	Engl.	0-302 Classroom	383	1968
H. E. Vogel	Phys.	119 Physics	253	1968
J. P. Winter	Engl.	0-201 Classroom	383	1968
S. M. Lukawecki	Math	0-310 Classroom	387	1969
M. G. Miller	Phys.	208 Physics	253	1969
R. F. Mixon	Mod. Lang.	0-2 Classroom	383	1969
Eugene Park	Math	0-110 Classroom	387	1969
W. C. Capel	Soc. Sci.	B-5 Hardin	296	1970
J. G. Dinwiddie	Chem	303 Brackett	355	1970
L. D. Huff	Phys.	Physics	253	1970
Mrs. Rameth Owens	Soc. Sci.	B-7 Hardin	296	1970
J. V. Reel	Soc. Sci.	209 Hardin	296	1970

EDUCATION

A. F. Newton	Ind. Ed.	110 Ind. Engr.	293	1968
H. H. McGarity	Music	122B Education	392	1969
A. K. Jensen	Ag. Ed.	136 P&AS	294	1970

ENGINEERING

J. D. Antrim	CE	212 CE	223	1968
R. A. Bannister	Ind. Rel	Ind. Engr.	234	1968
R. C. Harshman	CE	203 Earle	357	1968
D. W. Bradbury	ME	304 Riggs	229	1969

<u>Name</u>	<u>Dept.</u>	<u>Campus Address</u>	<u>Telephone</u>	<u>Term Ends</u>
<u>ENGINEERING CONT.</u>				
R. F. Nowack	EM	210 CE	265	1969
F. C. Alley	ChE	209 Earle	357	1970
J. N. Thurston	EE	211 Riggs	227	1970

INDUSTRIAL MANAGEMENT AND TEXTILE SCIENCE

J. L. Richardson	IM	310 Sirrine	350	1968
J. M. Wannamaker	IM	312 Sirrine	350	1968
J. H. Marvin	Text.	325 Sirrine	350	1969
D. W. Lyons	Text.	312-D Sirrine	350	1970

FACULTY ACADEMIC STANDING COMMITTEES 1967-1968

1. Admissions. The Director of Admissions serves as chairman ex officio and the Registrar is an ex officio member. The committee makes specific recommendations to the President in cases of individual student petitions. The committee deals not only with original admission problems, but with aspects of continuing enrollment.

K. N. Vickery (Chairman)

E. S. Olson (TC)	1968	C. C. Fain (CrE)	1970
M. O. Usrey (Engl)	1968	V. S. Hodges (Arch-Senate)	1970
B. M. Cool (For)	1969	A. E. Schwartz (CE)	1970
C. E. Littlejohn (ChE)	1969	S. M. Watson (ME)	1970
Herbert Brantley (RPA)	1970	R. J. Berry (<u>ex officio</u>)	

2. Curricula. Ex officio members are the President of the Faculty Senate, the Director of Admissions, and the Dean of the University, who acts as chairman. Faculty members of the committee are chairmen of school or college curriculum committees. The University Curricula Committee recommends to the Educational Council the addition or deletion of existing curricula and specific changes within curricula.

Victor Hurst (Chairman)

A. F. Newton (Educ)	1968	J. W. Jones (Agric)	1969
M. A. Owings (A&S)	1968	H. W. Busching (CE)	1970
J. N. Thurston, (Pres.		C. C. Davis (IM)	1970
Fac. Sen., <u>ex officio</u>)	1968	K. N. Vickery (<u>ex officio</u>)	
E. Gunnin (Arch)	1969	Academic Deans	

3. Ethics and Religion. This committee makes recommendations to the President concerning matters of relationship between the student body and campus and community religious organizations. Committee membership includes the Dean of Student Affairs and his assistants, the ministers of local churches, and the director and associate director of the YMCA. The committee elects its chairman.

E. D. Stockman (Chairman)

Victor Hurst	C. J. Lupo
C. A. Arrington	C. E. Raynal
J. W. Arrington	B. E. Trent
P. H. Lewis	W. T. Cox

4. Faculty Basic Research. This committee has nine faculty members, and two ex officio members, the Comptroller and the Graduate Dean, who serves as chairman. The committee controls expenditures of funds granted to it for use by the faculty in carrying out basic research. Committee funds include income from a gift to the University by the C. W. Kress Foundation, an annual grant from the Alumni Loyalty Fund, and a sum from NSF. Members of the faculty who wish to apply for research grants may do so directly to the Graduate Dean. Grants may be made for publication as well as for research itself.

Cont.

F. I. Brownley (Chairman)

M. A. Wilson, <u>ex officio</u>		S. M. Lukawecki (Math)	1969
G. C. Kingsland (Bot)	1968	C. W. Jennings (Engl)	1970
J. J. Porter (TC)	1968	A. K. Jensen (AgEd)	1970
T. Yang (ME)	1968	D. W. Lyons (TC)	1970
W. B. Barlage (ChE, Res. Fac. Council)	1969		

5. Fine Arts Series. In July 1965 President Edwards appointed a Fine Arts Series Committee to assist in planning, coordinating, and publicizing these activities. By acting as a clearing agency where ideas and information can be exchanged, the Committee hopes that the cultural environment of the University community can be enhanced. It is planned to issue a master calendar of events from time to time and to maintain special announcements for the art exhibitions, the concert series, and the lecture series.

C. B. Green (Chairman)

Victor Hurst, <u>ex officio</u>		A. J. Kaufmann (Arch)	1969
H. E. McClure, <u>ex officio</u>		C. O. Schuler (IM)	1969
Bruce Cook, <u>ex officio</u>		J. N. Thurston (EE)	1969
W. T. Cox, <u>ex officio</u>		R. W. Hill (Engl)	1970
H. M. Cox, <u>ex officio</u>		M. S. Steadman (Engl & Fac. Sen.)	1970
K. N. Vickery, <u>ex officio</u>		A. S. Tombes (Ent)	1970
R. P. Ashworth (Bot)	1968	(Three student members will be selected by the Student Senate.)	
V. S. Hodges (Arch & Fac. Sen.)	1968		
H. L. Hunter (A&S)	1968		

6. Honors and Awards. This committee is composed of twelve members of the faculty and seven ex officio members: two students (one selected by Phi Kappa Phi, one by Phi Eta Sigma), the chairman of the Honors Program Council, the Director of Admissions, the Dean of Men, the Dean of Women, and the Director of Student Financial Aid. The committee nominates students for special annual awards for academic achievement and arranges the program for the annual University Honors and Awards Day. The chairman of the University Honors Program Council is chairman ex officio of this committee.

C. B. Green (Chairman)

A. M. Bloss, <u>ex officio</u>		J. V. Walters (Text)	1969
G. E. Coakley, <u>ex officio</u>		W. F. Beckwith (ChE)	1970
Susan Delony, <u>ex officio</u>		J. D. Brittain (USA)	1970
K. N. Vickery, <u>ex officio</u>		R. P. Burnett (USAF)	1970
N. R. Bauld (EM)	1968	S. F. Hulbert (CrE)	1970
M. A. Packer (Educ)	1968	A. J. Kaufmann (Arch)	1970
E. Park (Math & Fac. Sen.)	1968	G. E. Stembridge (Hort)	1970
S. O. Park (IM)	1968	(Two students - to be selected for one year terms.)	
John Idol (Engl)	1969		

7. Library. A faculty committee (with the Director of the Library as an ex officio member) which recommends library policy to the Dean of the University. The committee elects its chairman.

(Chairman to be elected)

Gordon Gourlay, <u>ex officio</u>		J. T. Ligon (AgE)	1969
J. D. Antrim (CE & Fac Sen.)	1968	G. B. Savitsky (Chem)	1969
A. K. Jensen (Educ)	1968	J. L. Idol (Engl)	1970
J. W. Kenelly (Math)	1968	Ralph Knowland (Arch)	1970
R. C. Fox (Ent & Res. Fac. Council)	1969	J. F. Pearce (Econ)	1970

8. Schedule. A committee (with the Director of Admissions as ex officio chairman) which develops each semester the master schedule of courses taught. Each school or college has appropriate representation.

K. N. Vickery (Chairman)

W. C. Bowen (Educ)		C. M. McGee (Engl)	
D. W. Bradbury (ME)		C. M. McHugh (EG)	
H. E. Broyles (EE)		M. G. Miller (Phys)	
J. H. Couch (IE)		R. F. Nowack (EM)	
C. C. Davis (IM)		E. B. Rogers (AgE)	
R. P. Burnett (USAF)		J. R. Salley (Chem)	
E. A. Gunnin (Arch)		E. A. Thompson (Econ)	
R. C. Harshman (ChE)		I. A. Trively (CE)	
John LaGrone (Math)		J. V. Walters (Text)	
H. J. Lefort (CrE)		B. C. Wright (USA)	
W. R. Mattox (Reg)		J. B. Whitney (Bot)	

9. Honors Program Council. A Council consisting of nine professors appointed by the Dean of the University. This council recommends policy (including curricula and standards of admission) concerning the University Honors Program. Dr. C. B. Green, Professor of English and Director of Summer Sessions and Extended Programs, is chairman.

C. B. Green (Chairman)

K. N. Vickery, <u>ex officio</u>		J. L. Richardson (IM)	1969
C. W. Bolen (Hist)	1968	M. K. Richardson (CE)	1969
A. T. Hind (Math & Fa. Sen.)	1968	R. P. Ashworth (Bot)	1970
C. H. Watson (Engl)	1968	M. J. Skove (Phys)	1970
		W. T. Zink (EE)	1970

10. Graduate Council. This Council consists of the Dean of the Graduate School, who acts as chairman, the undergraduate deans (or their designated representatives), and eleven professors nominated for three year terms by the Graduate Dean. This council recommends Graduate School policy to the President via the Dean of the University.

F. I. Brownley (Chairman)

Academic Deans		J. J. Porter (TC & Res Fac Council)	1969
T. R. Adkins (Ent)	1968	J. N. Thurston (EE)	1969
R. C. Harshman (ChE & Fac. Senate)	1968	W. V. Chalupa (DySci)	1970
J. H. Hobson (Chem)	1968	E. M. Lander (Hist)	1970
Harriet Holman (Engl)	1969	S. M. Lukawcki (Math)	1970
S. O. Park (IM)	1969	W. M. McLellon (AgE)	1970

Cont.

11. Patent Committee. This Committee makes recommendations to the President concerning all University patent matters in accord with the Patent Policy as printed in the Faculty Manual. The Vice-President for Business and Finance is chairman ex officio.

M. A. Wilson (Chairman)

Wright Bryan, <u>ex officio</u>	A. E. Schwartz (CE & Res	
T. D. Efland, <u>ex officio</u>	Council)	1968
O. B. Garrison, <u>ex officio</u>	D. W. Bradbury (EG & Senate)	1969
Stan Nicholas, <u>ex officio</u>	K. N. Helton (B-F)	1969
A. D. Lewis (ME)	W. C. Mickleberry (FdSci &	
	Res. Fac. Council)	1970
1968		

12. University Archives. This Committee makes recommendations to the Dean of the University concerning acquisition of materials for the University archives. Dr. R. S. Lambert, Head, Social Sciences Department, is chairman ex officio.

R. S. Lambert (Chairman; ex officio)

Wright Bryan (Adm), <u>ex officio</u>	Mrs. R. R. Owens (SocSci &	
J. W. G. Gourlay (Lib), <u>ex officio</u>	Fac. Senate)	1970
E. M. Lander (SocSci)		
1969		

13. Special Advisory Committee for Disposal of Poisonous Chemicals

Norwood Page (Ag Chem), Chairman
Henry Polk (Chem)
J. J. Porter (TC)
Ralph Collins, ex officio

14. Special Advisory Committee on Use of Radioactive Materials

J. G. Dinwiddie (Chem), Chairman	T. D. Efland (IM-TS)
K. Lehotsky (Forestry)	S. G. Nicholas (Engr)

15. Improvement of Undergraduate Teaching. A standing Committee, appointed in 1966 for the first time, to recommend ways and means of improving undergraduate teaching and undergraduate educational programs.

J. H. Hobson 1970 (Chairman)

L. M. Bauknight (AgEc)	1968	C. M. Jones (Agron)	1970
J. L. Edwards (ME)	1968	J. T. Long (EE)	1970
J. B. Whitney (Bot & Fac.		President, sophomore class	
Senate)	1968	President, junior class	
C. C. Davis (IM)	1969	President, senior class	
H. F. Landrith (Educ)	1969	Student Senate Appointee	
H. H. Macaulay (Econ)	1969		
M. A. Owings (Engl)	1969		
Robert Hunter (VisStudies)	1970		

CURRENT ROSTER OF RESEARCH FACULTY COUNCIL

1967 - 1968

Agri. & Bio. Sci.

W. P. Byrd	Agri. & Bio. Sci.	Experiment Station F 148
G. R. Craddock	Agri. & Bio. Sci.	Agronomy & Soils 277 P & AS Bldg.
R. C. Fox	Agri. & Bio. Sci.	Ent. & Zool. Long Hall 306
U. S. Jones	Agri. & Bio. Sci.	Agronomy & Soils 277 P & AS Bldg.
* W. C. Mickelberry	Agri. & Bio. Sci.	Food Science & Biochem 243 P & AS Bldg.
* A. S. Tombes	Agri. & Bio. Sci.	Ent-Zool. B-21 Long Hall
* L. O. Drew	Agri. & Bio. Sci.	Agri. Engr. 132
L. O. Van Blaricom	Agri. & Bio. Sci.	Food Industry 109

Arts & Science

M. B. Bishop	Arts & Science	Chem. Geol. 213
* E. M. Lander	Arts & Science	Social Sci. 117 Hardin Hall
H. H. Macaulay	Arts & Science	" " 211 Hardin Hall

Engineering

* W. P. Barlage	Chemical Engr.	128 Earle Hall
* S. F. Hulbert	Ceramic Engr.	29 Earle Hall
* M. J. B. Paynter	Civil Engr.	302 Cvl. Engr.

Textiles

J. J. Porter	IM & TS	Textiles 11 Sirrine Hall
J. V. Walters	IM & TS	206 Sirrine Hall Textiles

Architecture

* Lamar Brown	Architecture	116 Architecture
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* Newly elected members.

ANNUAL REPORT OF THE RESEARCH FACULTY COUNCIL
TO THE CLEMSON UNIVERSITY RESEARCH FACULTY

April 19, 1967

The Clemson University Research Faculty Council met on May 16, 1966 and elected officers: A. E. Schwartz, Chairman; W. V. Chalupa, Vice-Chairman and G. R. Craddock, Secretary. Membership on the Council for the year 1966-1967 consisted of the following representatives:

College of Agriculture and Biological Sciences:

W. V. Chalupa, W. P. Byrd, R. C. Fox, W. C. Godley, L. O. Van Blaricom,
U. S. Jones, and G. R. Craddock

College of Arts and Sciences:

Mrs. M. B. Bishop and J. E. Miller who was later replaced by
H. H. Macaulay.

College of Engineering:

A. E. Schwartz and T. T. Yang

School of Industrial Management and Textile Science:

J. J. Porter and J. V. Walters

At the June meeting of the Council committees were appointed:

Policy: R. C. Fox, Chairman; U. S. Jones and L. O. Van Blaricom

Personnel Relations: Mrs. M. B. Bishop, Chairman; T. T. Yang and
W. P. Byrd

Ad Hoc Committee on Organizations: W. C. Godley, Chairman and J. J. Porter.
H. H. Macaulay was also appointed to this committee upon his election.

The Policy Committee was asked to study the following: library indefinite loan policy, payroll policy regarding nine month staff members who have research grants for summer employment, and graduate research assistant parking regulations. The Personnel Relations Committee was asked to continue its work drafting a safety code for the University and the Ad Hoc Committee was requested to review the Constitution and By-Laws regarding membership on the Research Faculty.

During the new faculty orientation program several members of the Research Council served as tour guides. Dr. Chalupa described the organization and purpose of the Research Faculty and the activities of the Council to the new faculty at the dinner held in their honor. Dr. Chalupa also attended the luncheon for freshmen in the Honors Program.

At the September meeting a policy regarding transfer of faculty which had originated in the Faculty Senate was reviewed by the Council. After considerable discussion and deliberation the Senate proposal was modified to better fit the needs of the Research Faculty.

The Council recommended at its October meeting the Constitution and By-Laws be amended with regard to membership requirements for the Research Faculty. A special meeting was called by Dean Hurst to pass on this amendment at which the Research Faculty expressed its approval. Article 1, Section 1, Part 2 of the By-Laws was amended as follows: that the "Supervising of research of graduate students is considered to be an instructional function," be deleted. Subsequently, this action was approved by the Education Council.

Dean Hurst addressed the Council at its November meeting and commented on the importance and progress of research activities at Clemson.

At the February meeting, the Council unanimously adopted a report by Dr. Godley "that (1) the number of faculty members now engaged in both teaching and research has grown rapidly in recent years and that the policy of the University is that new faculty members be proficient in both teaching and research, and (2) that policies approved by each of the two faculties are often referred to the other before finally approved, thus resulting in considerable duplication of effort by the two groups. In view of these factors, the Research Council should again affirm its support for unification of the two bodies."

The Education Council also adopted a recommendation by the Policy Committee concerning conflict of interest.

The Research Council invited Mr. Palmer to speak at its April meeting for a report on the activities and future plans of the Computer Center. The Council offered its assistance in any way which might be useful for the development and expansion of computer facilities at Clemson.

The membership on the Research Faculty Council was reapportioned for the next three years beginning in 1967-1968 as follows:

School of Architecture - 1 (5 research faculty)

School of Industrial Management and Textile Science - 2 (13 research faculty)

School of Education 1 (3 research faculty)

College of Engineering - 3 (34 research faculty)

College of Agriculture and Biological Sciences - 8 (137 research faculty)

College of Arts and Sciences - 3 (43 research faculty)

Cont.

The membership of the Research Faculty consisted of 235 staff members for the year 1966-1967.

New members were elected to the Research Council in April:

School of Architecture: Lamar Brown

College of Agriculture and Biological Sciences: W. C. Mickelberry, A. S. Tombes, and L. O. Drew

College of Arts and Sciences: E. M. Lander

College of Engineering: W. P. Barlage, S. F. Hulbert, and M. J. B. Paynter

Election of officers was held at the April meeting of the Council for the year 1967-1968:

R. C. Fox, Chairman
G. R. Craddock, Vice-Chairman
S. F. Hulbert, Secretary

Several members of the Council also served on University Standing Committees:

T. T. Yang - Faculty Basic Research
W. C. Godley - Fine Arts
A. E. Schwartz - Patent
R. C. Fox - Library

Respectfully submitted,

Arnold E. Schwartz
Arnold E. Schwartz, Chairman
Research Faculty Council

Minutes of the Research Faculty Council Meeting

May 16, 1967 -- 4:00 P.M.

Members absent were W. C. Mickelberry, L. O. Van Blaricom, M. B. Bishop, E. M. Lander (on leave), H. H. Macaulay, S. F. Hulbert, M. J. B. Paynter, J. V. Walters, and Lamar Brown.

Minutes of the previous meeting were approved without reading.

Chairman Fox handed out rosters of the University Research Faculty and of the Research Faculty Council.

Chairman Fox announced that Dr. Arnold Schwartz, as retiring Chairman of the Research Faculty Council, is scheduled to deliver the Clemson University Commencement address in August.

A schedule of suggested meeting dates during 1967-68 for the Research Faculty Council was distributed to the members present.

Chairman Fox announced his committee assignments for the 1967-68 academic year.

Policy Committee

U. S. Jones, Chairman

L. O. Van Blaricom

E. M. Lander

Lamar Brown

Personnel Relations Committee

M. B. Bishop

W. P. Byrd

J. V. Walters

M. J. B. Paynter

L. O. Drew

Research Faculty Council representatives on University standing committees, subject to approval by Dean Hurst, are:

Faculty Basic Research Committee - H. H. Macaulay

Fine Arts Series - A. S. Tombes

University Patent Committee - W. P. Barlage

University Graduate Council - J. J. Porter

Faculty Senate - W. C. Mickelberry

Chairman Fox stated that he would investigate the possibilities of having Research Faculty Council representatives on the University Parking Committee and on the committee which selects recipients of honorary degrees from Clemson.

The meeting adjourned at 4:30 P.M.

Respectfully submitted,

L. O. Drew, Acting as Secretary
in the absence of S. F. Hulbert

Minutes of the Research Faculty Council Meeting

July 18, 1967 -- 4:00 P.M.

Members absent were U. S. Jones, A. S. Tombes, L. O. Drew, L. O. Van Blaricom, M. B. Bishop, E. M. Lander, J. J. Porter, J. V. Walters, and Lamar Brown.

Minutes of the previous meeting were approved without reading.

Chairman Fox announced the establishment of a University Ad Hoc Safety Committee. Chairman Fox appointed M. B. Bishop as the Research Faculty Council representative on the new University standing committee.

Dr. Fox appointed the following Research Faculty Council members to act as tour guides during the New Faculty Orientation Program:

G. R. Craddock
A. S. Tombes
W. P. Barlage
S. F. Hulbert
E. M. Lander

Several minutes were spent discussing Central Services' duplicating facilities.

Dr. W. P. Byrd announced that the Computer Center's Sub-Committee for Teaching and Research solicits the advice and recommendation of all faculty members. Dr. Byrd asks that faculty members submit their recommendations through their representative on the Sub-Committee.

The meeting adjourned at 4:30 P.M.

Respectfully submitted,

S. F. Hulbert
Secretary

SFH: sbw

FACULTY PROMOTIONS ANNOUNCED FOR 1967-68

--Thirty-six members of the teaching and research faculties will be promoted in rank, effective May 15, 1967. Of these, five associate professors will become professors; twenty-nine assistant professors will become associate professors, and two instructors will become assistant professors.

The list of those being promoted is:

College of Agriculture & Biological Sciences:

Promoted to Associate Professor:

Dr. William V. Chalupa
Dr. Billy Joe Gossett
Dr. James Riley Hill
Dr. William C. Mickelberry
Dr. William A. Shain
Dr. Ernest T. Sims
Dr. George C. Skelley
Dr. George E. Stembridge
Dr. Byron K. Webb

Promoted to Professor:

Dr. Wilbert P. Byrd
Dr. Edwin W. King
Dr. Wayne R. Sitterly

School of Architecture:

Promoted to Associate Professor:

Professor John T. Acorn
Professor John E. Pinckney
Professor Richard T. Reep
Professor Ireland G. Regnier

College of Arts and Sciences:

Promoted to Assistant Professor:

Mrs. Dorothy H. Davenport

Promoted to Associate Professor:

Dr. Virginia O. Bardsley
Dr. Farrell B. Brown
Dr. Robert L. Chaplin
Dr. Arthur J. Fear
Dr. William E. Gettys
Dr. Henry W. Graben
Dr. John F. Pearce
Dr. Billy R. Skelton
Dr. Harvey J. Wheeler

FACULTY PROMOTIONS ANNOUNCED FOR 1967-68 (Continued)

College of Arts and Sciences:

Promoted to Professor:

Dr. John W. Huffman

School of Education:

Promoted to Associate Professor:

Dr. Arthur K. Jensen

Dr. Myrton A. Packer

College of Engineering:

Promoted to Associate Professor:

Dr. Walter E. Castro

Dr. James A. Chisman

Dr. Melvin K. Richardson

Dr. Arnold E. Schwartz

Promoted to Professor:

Dr. James T. Long

School of Industrial Management and Textile Science:

Promoted to Associate Professor:

Dr. John J. Porter

Clemson University at Greenville TEC

Promoted to Assistant Professor:

Professor Paul A. Klevgard

NEW FACULTY AND STAFF 1967-68

Those members of the faculty and staff who joined the University during the period, August 17, 1966 - August 16, 1967

Allen, Johnny L., Editor, News Bureau; Office of Development; Married, one child
21-A Barre Street

Anthony, Ann Lee, Assistant Radio-Television Editor; B.S., Winthrop; Single;
P. O. Box 186, Seneca

Arnett, James DeLos, Jr., Instructor in Biology at Clemson University in Sumter;
B.S., M.S., University of South Carolina; Married, one child

Barfield, John R., Assistant Professor of Economics; B.B.A., M.B.A., University
of Georgia; Single

Barker, Robert H., Associate Professor of Textile Chemistry & Chemistry; Ph.D.,
University of North Carolina; Married, three children; 111 Carolina Drive

Barrier, Martin James, Instructor in Entomology & Zoology; M.S., N. C. State;
Married

Bass, Thomas S., Assistant Coach, Athletic Department; A.B., Marysville College;
M.Ed., University of Tennessee; Married

Baxter, Mrs. Ann W., Assistant Professor in Botany & Bacteriology; Ph.D., Univ.
of North Carolina

Bennett, George, Alumni Field Representative; Married

Berry, Terry G., Assistant Professor of Military Science; Captain, Quartermaster
Corps, United States Army; B.S., Florence State College; Married; 304 East 2nd
Avenue, Easley

Beyerlein, Adolph Louis, Assistant Professor of Chemistry; B.S., Fort Hays Kansas
State College; Ph.D., University of Kansas; Single; Apartment 10, Lakewood Terrace

Binsse, Marie Irene, Instructor in Speech; B.A., Marietta College; M.A., University
of Illinois; Single

Birtman, Kenneth David, Instructor in Sociology; B.A., Northwestern State College;
M.A., Stephen F. Austin State College; Single

Bose, Anil Kumar, Assistant Professor of Mathematics; B.S., M.S., Calcutta Univ;
Ph.D., University of North Carolina; Married

Bouknight, Judith Adell, Instructor in Nursing; B.S., Newberry College; Single;
1202 South Main Street, Anderson

Britz, Ronald J., Assistant Professor of Military Science; Captain, Corps of
Engineers, United States Army; B.S., Kansas State University; Married; 207 Skyview
Drive

Bryant, Hallman Bell, Assistant Professor of English; B.A., Emory University; M.A.,
University of North Carolina; Ph.D., Vanderbilt University; Married; 414 Pendleton
Road

Bungay, Henry Robert III, Associate Professor of Environmental Systems Engineering; B.ChE., M.S., Cornell University; Ph.D., Syracuse University; Married, three children

Burden, Charles A., Assistant Professor of Industrial Management; B.S., Clemson University; M.B.A., Georgia State College; Married, one child

Cameron, Joseph Price, Assistant Professor of Mathematics at Clemson University in Sumter; B.S., The Citadel; M.S., University of Georgia; Married

Campbell, William Howard, Assistant in Visual Aids; A.B., University of South Carolina; Single

Card, Edith B., Instructor of Music Education; A.B., Furman University; M.M.E., Florida State University; Married; 112 Daniel Avenue, Seneca

Carpenter, Earl T., Director, Research Coordinating Unit and Visiting Associate Professor of Vocational Education; B.S., M.Ed., and Ed.D., University of Missouri; Married; 22A Barre Street

Carpenter, Kenneth Edson, Assistant Professor of Architecture; B.Arch., University of Oklahoma; M.Arch., University of Minnesota; Married, two children

Clark, Howard G. III, Associate Professor of Textile Chemistry; A.B., Samford Univ., Birmingham; M.S., University of Notre Dame; Ph.D., University of Maryland; Married, three children; 119 Mountain View Lane

Cosens, Earl T., Chief Engineer, Communications Center; Married; 707 Whitehall Road, Anderson

Day, Frank L., Assistant Professor of English, Clemson University at Greenville TEC; B.S., Gorham State College; M.A., University of Tennessee; Married, two children; #5 Cyrus Court, Greenville

Dillman, Buddy L., Assistant Professor of Agricultural Economics; B.S.A., M.S., University of Arkansas; Ph.D., N. C. State; Married, two children; 217 Lark Circle

Douglass, Thomas E., Assistant Professor of English & Modern Languages; B.A., M.A., & Ph.D., University of Arkansas; Single

Dowdle, Marion W., Assistant Professor of Military Science; Captain, Armor, United States Army; B.A., Presbyterian College; Married

Doyle, John Joseph III, Instructor in English, Clemson University at Sumter; B.A., Regis College; M.A., Louisiana State University; Single

Durham, Harry, Director, University Communications Center; Married; 102 Pressley St.

Elling, Rudolph E., Assistant Professor of Civil Engineering; B.S., Michigan State; M.S., University of Illinois; Ph.D., Stanford University; Single

Ericksen, Arthur R., Assistant Professor of Military Science; Captain, Signal Corps, United States Army; B.S., Auburn University; Single

Eude, Josette Andree, Visiting Instructor in French; Licence, Diploma, and Certificate, University of Paris; Single

Ferrell, Wanda R., Instructor in Physics, Clemson University at Greenville TEC; B.A., Bridgewater College; M.S., Clemson University; Married; 104 Freedom Drive

Fletcher, Charles E., Instructor in Industrial Management, Clemson University at Sumter; B.S., University of Alabama; M.S., New Mexico Highlands University; Single

Fredland, Richard Alan, Instructor in Political Science; A.B., Wofford College; M.A., American University; Married

Freeze, Chester R., Associate Professor of Education; B.S., Marion College; M.Ed., University of South Dakota; Ed.D., University of Alabama; Married; Woodway Drive, Central

Frye, Revis M., Assistant Professor of Recreation and Park Administration; B.S., Western Carolina University; M.A., Columbia University; Married

Fulton, John David, Assistant Professor of Mathematics; B.S., M.S., & Ph.D., N. C. State; Married

Ganim, Virginia Lynn, Instructor in English; B.A., M.A., University of North Carolina; Single

Gilliland, Bobby Eugene, Assistant Professor of Electrical Engineering; B.S., Louisiana Polytechnic Institute; M.S., Ph.D., University of Arkansas; Married, one child

Graham, Margaret Schweitzer, Instructor in German; B.S., Pennsylvania State University; M.Ed., Temple University; Married

Graham, W. Doyce, Assistant Professor in Agronomy & Soils; Ph.D., Purdue University; Married, one child

Greene, James Albert, Instructor in Sociology, Clemson University at Sumter; B.A., Wake Forest; M.S.S.W., University of Tennessee School of Social Work; Married, one child; 132 Engleside, Sumter

Greer, Thomas N., Producer-Director, Communications Center; Married

Grubb, Charles Alan, Instructor in History; B.A., Washington and Lee University; M.A., Columbia University; Single; 3-D North Palmetto Blvd.

Guide, Vincent D.R., Assistant Professor of Military Science; Lieutenant Colonel, Infantry, United States Army; Married; 236 Maple Boulevard

Gunter, Thomas H., Assistant Professor, School of Industrial Management & Textile Science; B.S., Georgia Tech; M.A., Georgia State College; Married, two children; Clemson Heights - East Lewis Road - Box 528

Hahn, Marshall F., Assistant Professor of Industrial Education; A.B., M.S., Nebraska State College; Married; Freedom Drive

Hall, James Wayne, Associate Professor of Chemical Engineering; B.S., Texas A & M; M.S. & Ph.D., University of Texas; Married, three children

Haltiwanger, Marion E., Assistant Professor of Military Science; Major, Artillery, United States Army; B.S., The Citadel; Married

Hannah, Howard Barry, Assistant Professor of English; B.A., Mississippi College; M.A., also M.F.A., University of Arkansas; Married, one child; 6-D Daniel Drive

Harrison, Eugene (NMI), Draper Professor of Mechanical Engineering; B.S., M.S., Texas A & M; Ph.D., Michigan State University; Married, four children; Six Mile

Haselton, George Montgomery, Assistant Professor of Geology; B.A., Colby College; M.A., Boston University; Ph.D., Ohio State University; Married; Lake View Drive

Hite, James Cleveland, Assistant Professor of Agricultural Economics; B.S., Clemson University; M.A., Emory University; Ph.D., Clemson University; Single; Edgewood Arms Apartments

Houser, Raymond D., Instructor in Chemistry, Clemson University at Sumter; B.S., Kansas State College; M.S., Colorado School of Mines; Single

Howard, Frank James, Jr., Research Assistant, Crop Pest; B.S., M.S., Clemson University; Single

Howard, Gordon E., Assistant Professor of Recreation and Park Administration; A.B., M.A., University of North Carolina; Ph.D., University of Michigan; Married; 304 Meredith Street, Central

Hutchinson, John Paul, Instructor in Sociology; B.A., Baylor University; M.A., Stephen F. Austin State College; Single; #3 Glendell Apartments, College Heights Boulevard

Ibrahim, Iris Brann, Instructor in Mathematics, Clemson University at Greenville TEC; B.S., Southeastern Louisiana College; M.S., Clemson University; Married; Route 2, Enchanted Hills, Seneca

Johnston, Walter Edward, Assistant Professor, Experimental Statistics; B.S., M.S., Texas A & M; Married, two children; 202 Skyview Drive

Joiner, Charles Lee, Part-time Lecturer, Department of Economics; A.B., Central Wesleyan College; M.A., University of Alabama; Married; Central Wesleyan College, Central

Jordan, Wright S., Assistant Professor of Horticulture; B.S.A., M.S., University of Georgia; Ph.D., Penn State University; Married, one child; Holden Drive

Kapelis, Zigurts, Assistant Professor, School of Architecture; B.Arch, University of Melbourne; M.Arch., University of Michigan; Married, two children

Keith, Marvin O., Assistant Professor of Recreation and Park Administration; B.S., N. C. State University; M.S., University of North Carolina; Married; 224 North Clemson Avenue

Kingman, James Elmore, Assistant Television and Radio Editor; A.B., Wofford College; Married

Kopczyk, Ronald James, Engineering Assistant; B.S.E.E., University of Illinois; Single; P.O. Box 1373, Clemson

LaFleur, Kermit Stillman, Associate Professor, Agronomy & Soils; Ph.D., Clemson University; Married; 605 Hillcrest Drive

Laithwaite, Peter R.P., Instructor in Industrial Management; M.B.A., University of Georgia; Single

LaTorre, Donald Rutledge, Assistant Professor of Mathematics; B.A., Wofford College; M.A., Ph.D., University of Tennessee; Married

LaTorre, Jewel Gillam, Instructor in Mathematics; A.B., Coker College; M.A., Univ. of Tennessee; Married

Leemhuis, Roger Phillip, Ass-stant Professor of History; A.B., Villanova University; M.A., University of Massachusetts; Single; 9-B Daniel Drive

Lyon, Kenneth S., Assistant Professor of Military Science; Captain, Infantry, United States Army; B.S., Kansas State University; Married; 17 Kel-Car Acres, Central

Macy, Jacques Berr, Instructor in French; A.B., M.A.T., University of North Carolina; Married

Maharrey, James B., Assistant Professor of Military Science; Captain, Armor, United States Army; B.S., Auburn University; Married

Mann, John C., Alumni Editor, Office of Development; Box 247 HI, R-2, Central; Married, three children

Mann, Marion E., Assistant Professor of Military Science; Captain, Infantry, United States Army; B.S., North Georgia College; Married

Martin, Owen Mitchel, Assistant Professor of Military Science; Captain, Infantry, United States Army; B.S., Clemson University; Married

McGregor, Rob Roy, Jr., Assistant Professor of French at Clemson University at Greenville TEC; B.A., Erskine College; B.D., Columbia Theological Seminary; M.A., University of South Carolina; Married, one child; Route 7, Box 46, Anderson

McCracken, Alden L., Senior Accountant, Accounting Division; B.S., Western Carolina University; Married; Pendleton

McLellon, Waldron M., Associate Professor of Agricultural Engineering; B.S., U.S. Naval Academy; B.C.E., M.C.E., Rensselaer Polytechnic Institute; M.S. in Physics, Ohio State University; M.S., Ph.D., Rensselaer Polytechnic Institute; Married; Cherokee Gardens, Route 2, Seneca

Murray, Bobby K., Assistant Professor of Aerospace Studies; Major, United States Air Force; B.A., Sacramento State College; M.B.A., George Washington University; Married; Cherokee Gardens, Route 2, Seneca

Newman, Ray D., Assistant Professor of Military Science; Captain, Infantry, United States Army; B.S., Northeast Louisiana State College; Married

O'Reilly, Michael Francis, Assistant Professor of Mathematics; B.S., Queens University; Ph.D., University of Manchester; Single

Osteen, William, Communications Center; Married; 2503 E. North Avenue, Anderson

Owen, William Burrage, Assistant Professor of Mathematics; B.S., M.S., & Ph.D., Colorado State University; Married; 27-A Martin Street

Packard, Gary Claire, Assistant Professor of Entomology and Zoology; Ph.D., University of Kansas; Single

Page, Edna Earle, Assistant Professor of Vocational Education; B.S., M.S., Winthrop College; Single; 109 Industrial Engineering Building

Parker, Charles D., Assistant Professor of Aerospace Studies; Major, United States Air Force; B.S., Clemson University; Married; Rock Creek Road

Parry, Thomas H., Assistant Professor of Education; B.A.E., University of Florida; M.Ed., Ed.D., University of Virginia; Married; 106 Gregory Street

Perry, Leonard Thomas, Instructor in Spanish; A.B., John Carroll University; Married

Rabon, Jim D., Assistant Professor of Military Science; Major, Artillery, United States Army; B.S., Clemson University; Single

Ratliff, Nancy Ann, Instructor in History; B.A., M.A., Texas University; Single

Reed, Chatham Hurst, Instructor in French; B.A., Centenary College; M.A., Duke University; Single

Roberts, James T., Accountant, Accounting Division; B.S., Clemson University; Married; Liberty

Rogers, James Harold, Assistant Extension Communications Editor; B.S., University of South Carolina; Married; 800 East 2nd Avenue, Easley

Russell, Charles Bradley, Assistant Professor of Mathematics; B.A., University of The South; M.S., Ph.D., Florida State; Single

Savitsky, Ludmila Alexander, Lecturer in Russian; A.A., University of Florida; Married; 207 Brook Street

Schreiber, Marjorie, Instructor in Art & Architectural History; B.A., Wellesley College; B.D., Yale University Divinity School; Single

Sellers, James R., Instructor of Recreation and Park Administration; B.S., M.Ed., N. C. State University; Married; 2-H Robin Hill Apartments

Shepherd, William M., Assistant Professor of Military Science; Captain, Corps of Engineers, United States Army; B.S., Virginia Polytechnic Institute; Married; 102 Allee Street

Sherrill, Max Douglas, Associate Professor of Physics; B.S., Ph.D., University of North Carolina; Married; 326 Woodland Way

Skelton, Lynda W., Instructor in History, Clemson University at Greenville TEC; B.A., Wesleyan College; M.A., Clemson University; Married; Berkeley Drive

Small, Sandra E., Instructor in History, Clemson University at Sumter; B.A., Chatham College; M.A., Duke University; Single

Smith, Carolyn Dunlap; Instructor in Vocational Education; B.F.A., University of Texas; Married; 124 Jersey Lane

Smith, Leonidas C. III, Instructor in English, Clemson University at Greenville TEC; A.B., University of North Carolina; M.A., Clemson University; Married; 7-B Daniel Drive

Stanley, J. A., Jr., Assistant Plant Engineer, Physical Plant Division; B.S., Clemson University; Married; 3 Oakhaven Apartments

Terry, Amos M., Supervisor of Work Order Planning, Physical Plant Division; B.E.E., Clemson University; Married; Route 2, Starr

Thorning, Margo M., Instructor in Economics; B.A., Texas Christian University; M.A., University of Texas; Single

Tisdale, Charles F., Assistant Professor of Military Science; Lieutenant Colonel, Infantry, United States Army; B.S., Clemson University; Married; 127 Mountain View Ln.

Towell, Robert Daniel, Instructor in Psychology; B.S., Clemson University; M.D.D., Southeastern Theological Seminary; M.A., Furman University; Married; 207 Pine St.

Trent, Buford E., Director of the Y.M.C.A.; A.B. Wofford College; M.Ed., Springfield College; Married

Tyndall, Elmer N., Head of Aerospace Studies; Professor of Aerospace Studies; Colonel, United States Air Force; B.A., Sacramento State College; M.B.A., George Washington University; Married

Walker, William T. III, Instructor in History, Clemson University at Sumter; B.A., LaSalle College; M.A., Villanova University; Married

Wallace, F. Lance, Instructor in Biology, Clemson University at Greenville TEC; 100 Calhoun Street, Clemson

Whitehead, Marvin E., Instructor in Economics; B.S.B.A., M.B.A., University of Arkansas; Single

Wilson, William L., Assistant Professor of Aerospace Studies; Captain, United States Air Force; B.S., University of South Carolina; Married; 214 Wren Street

Wright, James A., Assistant Professor, Agronomy & Soils; Ph.D., Iowa State University; Married, two children

Yates, William Leo, Extension Family Life Specialist; B.S., University of Illinois; B.B.A., Texas A & M; M.S., University of Kansas; Married

Zielinski, Paul Bernard, Assistant Professor of Engineering Mechanics; B.S.C.E., Marquette University; M.S., Ph.D., University of Wisconsin; Married, four children

Yates, O. Lawrence, Instructor in Psychology at Clemson University in Sumter; B.S., M.A., University of South Carolina; Single; 34 Adams Avenue, Sumter

PERSONAL MENTION

--A. W. Snell (AgE) presented a paper on the Symposium -- Water Resources Problems and Research Needs in the Southeast -- at the Sixteenth Southern Water Resources and Pollution Control Conference held at Duke University, Durham, North Carolina, April 6 and 7.

--A. R. Pinder (Chem) and J. W. Huffman (Chem) presented papers at an invitational symposium on "The Chemistry of Tall Oil and Turpentine" at the National Meeting of the American Chemical Society, Miami Beach, April 9-14, 1967.

--Paul S. Williamon, Extension Farm Management Specialist, was elected Vice-Chairman of the Southern Extension Farm Management Committee at their spring meeting held in Birmingham, Alabama on April 26-28, 1967.

--C. B. Loadholt (ExSt) has had his study leave extended for another year to allow for the continuation of work on the Ph.D. degree in Statistics at Virginia Polytechnic Institute.

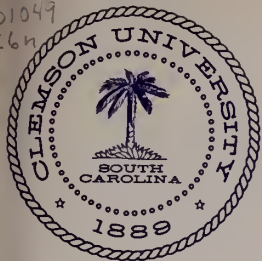
--A. W. Snell (AgE) presented a paper "Work of the Governor's Advisory Committee (S.C.) on Water Resources" at the 385h Annual Meeting of the Southeastern Section of the American Water Works Association at the Ocean Forest Hotel in Myrtle Beach, S. C., April 23-26, 1967.

--A. W. Snell (AgE) presented a paper in response to "Development Potential for Natural Resources" at the Conference on Development Potentials of the Atlantic Coastal Plains Region in Charleston, S. C., May 3-5, 1967.

--A. L. Shewfelt (FdSci & Biochem) presented a paper entitled "Influence of Gamma Radiation and Storage Treatments on Pectic Substances in Peaches" to the 27th Annual Meeting of the Institute of Food Technologists, Minneapolis, Minn., May 14-18, 1967.

--C. B. Caffrey (Psych) has published "Factors Involving Interpersonal and Psychological Characteristics Related to Coronary Heart Disease" in The Milbank Memorial Fund Quarterly, April, 1967.

--W. B. Herlinger (ModLang) has been qualified by HEW as consultant in Foreign Language Education and will be called upon to advise the Office of Education and various cultural agencies in this capacity.



CLEMSON NEWSLETTER

INFORMATION FOR THE STAFF OF CLEMSON UNIVERSITY

Vol. 7 No. 2

September 1, 1967

CLEMSON UNIVERSITY LIBRARY
SOUTH CAROLINA ROOM

SEP 1 1967

CALENDAR: September 1 - September 15, 1967

Aug. 29	T	Last day for matriculation
Aug. 30	W	Fine Arts Film Club - JULES AND JIM - 8 pm, CE Auditorium
Sept. 4	M	Educational Council Meeting, 9 am
Sept. 5	T	Last day to add a subject
Sept. 7	Th	Woman's Club Reception for Newcomers, 3:30 pm, Clemson House
Sept. 7	Th	Graduate Wives Club, YMCA at 8 pm
Sept. 19	T	Last day to drop a subject without record of drop
Sept. 20	W	Fine Arts Film Club - NATIONAL STUDENT FILM FESTIVAL - 8 pm, CE Auditorium

NEW FACULTY AND STAFF 1967-68 (Additional information received since the publication of the August 15, 1967 Newsletter)

Adams, Porter H., Jr., Instructor in Economics, Clemson University at Sumter; B.A., Clemson University; M.A., University of South Carolina; Single; 1340 Shady Lane, Columbia

Dunipace, Ann Jones, Part-time Lecturer, Pharmacology, Department of Entomology and Zoology. B.S., Vassar; Ph.D., Harvard University; Married; 123 Freedom Drive

Nash, Richard Fuller, Instructor, Entomology and Zoology; M.S., Auburn; Married; 102 Riding Road

Roberts, Beverley Drake, Instructor in Nursing; R.N., Memorial Hospital, Pawtucket, Rhode Island; B.S., Furman University; Married; P.O. Box 57, Carlisle

Woodruff, J. R., Assistant Professor, Agronomy & Soils; B.S., M.S., North Carolina State; Married, three children; 203 Manley Drive

AMERICAN COUNCIL ON EDUCATION DIRECTORS
APPROVE GUIDELINES RELATING
TO RATINGS OF COLLEGES

The Council's Board of Directors, meeting in Washington this week, unanimously approved guidelines proposed by President Logan Wilson for colleges and universities when requested to provide information for non-professional sources seeking to prepare institutional "ratings."

President Wilson said the Council continues to receive inquiries and complaints from colleges and universities about the preparation of "ratings" by nonprofessional sources. He suggested the following procedure: "Before sending out data in response to such requests (1) request the names and addresses of responsible individuals in higher education who are associated with the enterprise, and to whom inquiry can be made concerning it; and (2) request full information on the research methods and procedures by which it is proposed to evaluate institutions."

The Council president also requested that Alexander W. Astin, director of the ACE office of research, comment on "college rating services." Dr. Astin's statement follows:

Since our knowledge about the comparative impact of different higher educational institutions is still in a relatively primitive state, any attempts to rank or otherwise rate colleges in terms of "effectiveness" or "quality" are premature. There is, of course, a considerable folklore about colleges, particularly about the more prestigious and visible institutions. At best, any system of rating institutions based on available data would simply reinforce this folklore. At worst, the ratings would introduce additional unconfirmed evidence concerning quality to compete with the existing folklore.

Perhaps the greatest danger in using existing rating systems is that they imply that certain kinds of students should be "matched" with certain kinds of institutions. Normally, this involves simply a matching of students in terms of academic ability with institutions in terms of their selectivity. There are several problems with this approach to college counseling. First, it greatly oversimplifies the characteristics both of institutions and of students by implying that there is only one dimension (selectivity or ability) which is of any import in the college choice process. Our research evidence and that of many other investigators has shown that there are many other, perhaps more important, ways in which colleges and students differ. Secondly, the concept of "matching" students and colleges implies that each college would ideally enroll only one type of student. There is no evidence that I know of to indicate that homogeneous institutions are necessarily desirable for all students.

It is important to make a clear distinction between "ratings" of colleges and objective descriptive information about the institution, its environment, or its student body. Obviously, more good information about institutions is needed in order to enhance institutional self-understanding and also to provide college-bound students with more meaningful information on which to base their decisions. The difficulty arises when such descriptive information is equated with institutional "effectiveness." Hopefully, systematic research in higher education will soon provide us with better information about how certain institutional characteristics affect the development of the student. But until such information is available, it is premature to assume that any

known institutional characteristic is synonymous with institutional "quality." In short, institutions and prospective college students should take the available college rating systems that purport to give information concerning institutional effectiveness with a grain of salt.

from Higher Education and National Affairs, June 23, 1967

A POLICY TO GUIDE THE ACCEPTANCE AND PLACEMENT OF PAINTINGS, PLAQUES, AND OTHER LONG-TERM DISPLAYS IN THE ROBERT MULDROW COOPER LIBRARY.

I. General Procedure.

Any material suggested for display in the Library should be described in a memorandum to the Director of the Library. The Director will request the recommendation of the Faculty Library Committee pursuant to the following general policy. If the Faculty Library Committee recommends the display, the Architectural Faculty Advisor to the committee, appointed by the Dean of the School of Architecture, will be consulted as to the appropriate location. If the Faculty Library Committee rejects the display, the Dean of the University, or his designated representative, will be advised of the rejection.

11. General Policy.

1. The Library should not be considered as a repository for objects that more properly should be displayed in a museum or elsewhere.
2. Display material should be restricted to objects of general interest to Library users and to the University in general.
3. Material related to honorary organizations may be displayed provided that:
 - a. The material proclaims the existence of and/or honors an essentially University-wide organization, and
 - b. The organization has a direct relationship to the Library.
4. Portraits, charts, and photographs may be displayed provided that they conform to the requirement that the individual item is related to the Library in a meaningful manner.
5. Each item should be considered, accepted, and displayed on the basis of its individual merit, and then only for as long as seems appropriate.

PROFESSIONAL DEVELOPMENT IN 1967

The tenth annual series of Courses for Professional Development, conducted by the School of Industrial Management and Textile Science, began on May 8 and continued through August 4. A total of 15 classes were offered, including courses or seminars in: Color Measurement, Fiber Physics, Yarn Manufacturing, Methods Analysis and Time Study, Basic Textile Chemistry, Quality Control, Introduction to Textiles, Supervisor Development, Advanced Textile Chemistry, Weaving, as well as Industrial Administration, the program's approach to middle management development.

Two significant factors of the 1967 program: first, June 5 saw the 1,000th Professional Development registrant since the program was initiated in 1958. Secondly, a two-week course is now composed of 64 class hours, ten hours more than in previous years.

The total 1967 Professional Development enrollment was 199. This is the largest one year's enrollment in the ten year history of the program. The 199 participants came from 23 states, Canada, El Salvador, and France, and represented 103 educational, governmental, research, financial or industrial organizations.

The total Professional Development enrollment to date, 1958 through 1967, is 1,062.

GIFTS AND GRANTS

--J. W. Huffman (Chem) has received a four-year grant from the National Institute of Health, entitled "A Synthesis of Veratramine."

--D. W. Lyons (TS/ME) was recipient of a \$2,200 du Pont Summer Grant for Teachers in Mechanical Engineering 1967 to support research. He initiated a research project dealing with the dynamics of textile fibers, with particular emphasis on the dynamics of fibers undergoing a break during processing operations.

--Stauffer Chemical Company, \$100 to Pee Dee Station for research to be conducted on flue cured tobacco problems.

--FMC Corp., Niagara Chemical Division, \$750 to Pee Dee Station for research to be conducted on flue cured tobacco problems.

--Hercules, Inc., \$1,500 to Agronomy and Soils Department for studies involving weed control in cotton using Herban.

--Union Carbide Corp., \$500 to Pee Dee Station for research to determine the effectiveness of Temic for the control of nematodes on flue-cured tobacco.

--Hercules, Inc., \$1,000 to Horticulture Department, for studies involving use of Nitroform on turf grasses and peach trees.

--Stauffer Chemical Co., \$500 to Entomology and Zoology Department for studies of low volume application of pesticides on cotton.

- Campbell Limestone Co., \$500 to Horticulture Department for studies on growth of horticulture crops as influenced by use of various formulations of growing media.
- R. J. Reynolds Tobacco Co., \$10,000 to Pee Dee Station for flue cured tobacco problems research.
- Allied Chemical Co., Agriculture Division, \$500 to Agronomy and Soils Department for studies on use of 12-3-6 liquid plant food on Coastal Bermuda Grass.
- Mobil Chemical Co., \$200 to Botany and Bacteriology for studies on control of nematodes and root rotting diseases of cotton.
- John J. Ryan and Sons, Inc., \$1,000 to Food Science and Biochemistry Department for nutritional evaluation of amino meal.
- Kaiser Agricultural Chemicals, \$625 to Poultry Science Department for feeding trails using grass treated with anhydrous ammonia.
- Shell Chemical Co., \$2,500 to Entomology and Zoology Department for tests to be conducted involving Azondrin R and other Shell Chemical Co. pesticides.
- Shell Chemical Co., \$2,500 to Entomology and Zoology Department for tests to be conducted with Aldrin and Dieldrin on cotton and other crops.
- Monsanto Chemical Co., \$1,000 to Entomology and Zoology Department for insecticide research.
- Uniroyal, Inc., \$500 to Botany and Bacteriology for cottonseed treatment tests.
- Shell Chemical Co., \$1,500 to Entomology and Zoology Department for research to be conducted using SHELL GARDONA R and Gardovap insecticides against poultry ectoparasites.
- Shell Chemical Co., \$500 to Entomology and Zoology for research to be conducted by J. A. Durant at the Pee Dee Station on tests with Aldin and Cardona on corn insects.
- Corrugated Container Institute, \$1,500 to Horticulture for evaluation of container types for marketing of peaches.
- E. I. Dupont de Nemours and Company, \$500 to Edisto Station for research on soybeans using Dupont insecticides.
- USDA, ARS, \$30,219 to Dr. A. S. Tombes of the Entomology and Zoology Department, for research on the endocrinology of reproduction of the rice weevil.
- USDA, ARS, \$20,236 to Dr. E. W. King of the Entomology and Zoology Department, for research of the effects of parasites and predators on population dynamics of the Indian meal moth.
- USDA, CSRS, \$25,000 to S. C. Agricultural Experiment Station for construction of greenhouses and headhouses for soybean and cotton research.

GIFTS AND GRANTS, continued

--USDA, CSRS, \$29,219 to S. C. Experiment Station for construction of an Experimental Feed Processing Center.

--USDA, CSRS, \$10,000 to S. C. Experiment Station for construction of a Poultry Health Laboratory.

--USDA, CSRS, \$11,000 to S. C. Experiment Station for construction of a tobacco Disease Laboratory.

--John F. Andrews (ESE) has been awarded a research grant on the "Kinetics of Biological Filters" by the Federal Water Pollution Administration. This is a two-year grant with a first year budget of \$26,190.

PERSONAL MENTION

--T. T. YANG (ME) was one of four Engineering Professors from various universities invited to participate in the General Electric Company's Seminar on Gas Turbines at Saratoga Springs, New York, June 19-23.

--John F. Andrews (ESE) presented a paper entitled "Chromatographic Analysis of Gaseous Products and Reactants for Biological Processes" at the Annual Workshop of the American Association of Professors in Sanitary Engineering held at the University of Colorado, June 5-7, 1967.

--John F. Andrews (ESE) has been appointed a member of the South Carolina Board of Certification of Public Water Treatment Plant Operators.

--Linvil G. Rich (College of Engr.) served on the Task Committee at the Second National Conference on Environmental and Sanitary Engineering Graduate Education, sponsored by Environmental Engineering Inter-Society Board and the American Association of Professors in Sanitary Engineering held at Northwestern University, Evanston, Illinois, August 28, 29, and 30.

--W. H. Owens (PolSci) was awarded the Ph.D. degree by Florida State University at the August Commencement.

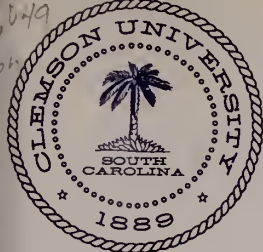
--J. V. Reel (Hist) was awarded the Ph.D. degree by Emory University at the August Commencement.

--W. F. Steirer (Hist) has published, "A New Look at the Ephrata Cloister," Journal of the Lancaster County Historical Society (Spring, 1966).

--D. F. Bruley (ChE) presented a paper entitled "A Simulation of Oxygen Transport in Blood Capillaries Carrying Pure Plasma" at the 7th International Conference on Medical and Biological Engineering in Stockholm, Sweden on August 18, 1967.

--G. F. Meenaghan (ChE) was one of eight professors chosen from universities throughout the United States to participate in a two-day University-Industrial Conference sponsored by the G. F. Goodrich Chemical Company, Cleveland, Ohio, in June.

--J. G. Goree (EM) presented a paper, "Axisymmetric Torsional Stresses in a Solid Containing Two Partially Bonded Rigid Spherical Inclusions", at the National Applied Mechanics Conference June 26-28, 1967 at the California Institute of Technology.



CLEMSON

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Vol. 7 No. 3

September 15, 1967

CALENDAR: September 15 - September 30, 1967

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|-------------|-------|---|
| Sept. 18 | M | Dr. B. K. Webb (AgE) and Charles Privette, graduate student in Agricultural Engineering will present seminars in the Agricultural Engineering Building at 4 p.m. Dr. Webb will talk on the "Mechanical Harvesting of Peaches" and Mr. Privette will present his talk on "Removal of Tomato Fruit from the Vine Utilizing a Vertical Oscillating Frame with Varing Amplitude". |
| Sept. 18 | M | Foreign Language Film - THE GOOD SOLDIER SCHWEIK (German) Based on the novel by Jaroslav Hasek.
7 and 9 p.m., CE Auditorium |
| Sept. 18 | M | Graduate Seminar, Agronomy 825, 4 p.m., Room A-203 P&AS. Jerry C. Walker - Evaluation of biologically-active tri-fluralin residues in soils. |
| Sept. 19 | T | Faculty Research Council, 4 p.m., Room I Physics |
| Sept. 19 | T | Last day to drop a subject without record of drop |
| Sept. 19 | T | Last day to order diploma for mid-year graduation |
| Sept. 20 | W | Emergency Self-Help Program - 7:30-8:30 p.m., Olin Hall Aud. |
| Sept. 20 | W | Fine Arts Film Club - NATIONAL STUDENT FILM FESTIVAL - 8 p.m., CE Auditorium |
| Sept. 20 | W | Dr. Harold Rice, Agronomist, Agricultural Division of OLIN will lecture on "New Developments in Ammonium Phosphate Manufacture and Use" in A-203 P&AS, 11:00-12:00 noon. |
| Sept. 21 | Th | Mr. John L. Baringer, President, Willcox, Baringer and Co., Inc., New York, N. Y., will speak at 2 p.m. in Sirrine Auditorium to the School of Industrial Management and Textile Science Seminar on "Reinsurance, Its Function and Marketing." |
| Sept. 22-23 | F-Sat | Rat Hop - Dining Hall |
| Sept. 23 | Sat | Football - Wake Forest at Clemson - Band and Youth Day |
| Sept. 25 | M | Graduate Seminar, Agronomy 825, 4 p.m., Room A-203 P&AS. Dr. J. A. Wright - Implications of quantitative genetics. |
| Sept. 26 | T | Faculty Senate, 4:15 p.m., Olin Hall Auditorium |

Sept. 27	W	Emergency Self-Help Program - 7:30-8:30 p.m., Olin Hall Aud.
Sept. 29	F	Freshman Football - Wake Forest at Winston-Salem
Sept. 30	Sat	Football - Georgia at Clemson IPTAY and High School Visitation Day
Oct. 2	M	Graduate Seminar, Agronomy 825, 4 p.m., Room A-203 P&AS. Karen M. LaFleur - The eye gnat, <u>Hippelates</u> spp.
Oct. 2	M	DONA BARBARA (Spanish) From the novel by Romulo Gallegos (Venezuela). 7 and 9:30 p.m., Civil Engineering Auditorium
Oct. 4	W	Emergency Self-Help Program - 7:30-8:30 p.m., Olin Hall Aud.
Oct. 5	Th	Woman's Club - Clemson House
Oct. 5	Th	Mr. John E. Jackson, Manager Films Management Systems, Olin Mathieson Chemical Corp., Pisgah Forest, N. C., will be the speaker for the School of Industrial Management and Textile Science Seminar at 2:00 p.m. in Sirrine Auditorium. Subject: "Opportunities in Data Processing".
Oct. 6	F	Freshman Football - Georgia at Clemson - 3 p.m.

FOREIGN LANGUAGE FILM SERIES - Fall Semester, 1967-68 - CE Auditorium

--All films have English subtitles with sound track in the language indicated. There is no admission charge. All showings are on Monday evenings.

September 18	7 and 9 p.m.	THE GOOD SOLDIER SCHWEIK (German) Based on the novel by Jaroslav Hasek.
October 2	7 and 9:30 p.m.	DONA BARBARA (Spanish) From the novel by Romulo Gallegos (Venezuela).
October 9	7 and 9 p.m.	THE OVERCOAT (Russian) Based on the story by Nicolai Gogol.
October 23	7 and 9 p.m.	THERESE DESQUEYROUX (French) Based on the novel by Francois Mauriac. Best Actress Award, Venice Film Festival.
November 13	7 and 9 p.m.	AREN'T WE WONDERFUL (German) Based on the novel by Hugo Hartung. Best Film and Best Actor Award, Berlin Film Festival. Gold Medal, Moscow Film Festival.
November 20	7 and 9:30 p.m.	THE MOMENT OF TRUTH (Spanish) Color

AGRONOMY 825 - GRADUATE SEMINAR SCHEDULE - FALL, 1967

4 p.m. - Room A203 - Plant and Animal Science Building

<u>Date</u>	<u>Speaker</u>	<u>Topic</u>
Sept. 4	Dr. W. P. Byrd	Research data processing.
11	Dr. R. W. Henningson	The function of the Office of University Research.
18	Jerry C. Walker	Evaluation of biologically-active trifluralin residues in soils.
25	Dr. J. A. Wright	Implications of quantitative genetics.
Oct. 2	Karen M. LaFleur	The eye gnat, <u>Hippelates</u> spp.
9	Robert L. Stephens	Some effects of gibberellic acid on forage grasses.
16	Woodrow G. Strock, Jr.	The small forest landowner and some of the problems he faces.
23	Charles W. Robinson	Influence of vernolate on the selectivity of chloroxuron and surfactant for weed control in soybeans.
30	Herbert E. Raab	Soil chemistry of 2 minor plant nutrient elements.
Nov. 6	Ronald D. Oliphant	The effect of ploidy level on seed-set in inter- and intraspecific crosses.
13	Harvey Jurecek	Properties of soils derived from sericitic schist and Carolina slate.
20	Robert W. Hardaway	A comparison of some of the organic and inorganic arsenicals: Their toxicity to mammals, value as herbicides, and fate in the soil.
27	James H. Palmer	Triticale - a wheat x rye cross.
Dec. 4	Charles R. Lee	Growth of flax and soybeans in a high zinc medium.

MINUTES OF THE RESEARCH FACULTY COUNCIL MEETING

August 22, 1967

The monthly meeting of the Research Faculty Council was called to order at 4:00 p.m. in Room No. 101 of the Physics Building by Chairman Fox.

Members absent were: W. C. Mickelberry, A. S. Tombes, L. O. Drew, M. B. Bishop, J. J. Porter, and Lamar Brown.

The minutes of the July 18, 1967 meeting were approved as circulated.

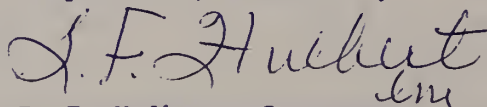
Chairman Fox expressed his appreciation to the Council members who acted as tour guides during the New Faculty Orientation Program and asked for their comments. These comments will be forwarded to Dean Hurst for consideration in planning the 1968 tour.

Considerable discussion concerning pay scales for technicians to assist faculty members conducting research was held. The Council asked Chairman Fox to discuss the matter with Dean Hurst.

The Policy Committee was asked by Chairman Fox to review present procedures for Out-of-State Travel approval.

The meeting was adjourned at 5:00 p.m.

Respectfully submitted,


S. F. Hulbert, Secretary

SFH/lm

RESEARCH FELLOWSHIPS

Information is available in the Office of University Research about the following Public Health Service Programs:

Special Research Fellowships
Predoctoral Research Fellowships
Postdoctoral Research Fellowships

PRESIDENT SIGNS BILL RAISING EDUCATIONAL BENEFITS FOR VETERANS

President Johnson signed into law Aug. 31 a veterans' pension and benefit bill raising monthly educational allowances for veterans and providing for payment of fees to colleges and universities which they attend. The educational provisions of the new law, Public Law 90-77, take effect Oct. 1.

Under the new law, veterans attending school or college under the GI bill of 1966 will receive the following monthly allowances:

<u>TYPE OF PROGRAM</u>	<u>NO DEPENDENTS</u>	<u>ONE DEPENDENT</u>	<u>TWO DEPENDENTS</u>	<u>ADDITIONAL DEPENDENTS</u>
Full-time student	\$130	\$155	\$175	\$10 each
Three-quarter time	95	115	135	7 each
Half-time	60	75	85	5 each
Cooperative program	105	125	145	7 each

The new law also provides full educational allowances to veterans who need to complete high school or take refresher courses in order to enter college, without reducing their eligibility for college benefits, consisting of one month's allowance for each month of active service.

--from Higher Education & National Affairs

BLUE CROSS OPENS ANNUAL RE-ENROLLMENT PERIOD

Representatives of Blue Cross-Blue Shield Insurance will be on campus September 25 through October 25, 1967. This is the annual re-enrollment period for group insurance available to all faculty members and other regular employees of Clemson University.

During this re-enrollment period any member of the Blue Cross-Blue Shield program may make changes (additions, deletions, etc.) if desired to fit their individual and/or family needs. Initial applications will also be accepted during this period for those who desire insurance coverage through this plan.

New employees may apply for insurance any time during their first 31 days of employment. Other employees may apply for insurance or request changes in present coverage only during the annual re-enrollment period, September 25 - October 25. Employees presently enrolled and desiring no changes will be automatically continued and need not contact the representatives at this time.

Appointments may be made with the representatives by telephoning Mr. W. J. Stamey in the Personnel Office, Ext. 365.

FACULTY SENATE SETS MEETING DATES

The Executive Committee of the Faculty Senate has set the meeting place, time and date for the 1967-68 Faculty Senate meetings as follows:

Meeting Place:	Auditorium of Olin Hall
Time:	4:15 P.M.
Dates:	Tuesday, August 29, 1967 Tuesday, September 26, 1967 Tuesday, October 24, 1967 Tuesday, November 14, 1967 Tuesday, December 5, 1967 Tuesday, January 23, 1968 Tuesday, February 27, 1968 Tuesday, March 26, 1968 Tuesday, April 23, 1968

EMERGENCY SELF-HELP PROGRAM

Alpha Phi Omega, a national service fraternity composed of former Boy Scouts of America, will sponsor an Emergency Self-Help Program from 7:30-8:30 PM on Wednesday nights beginning Sept. 13 and until Dec. 6 in the Ceramics Building auditorium. Faculty and staff are invited to participate. If you have missed the first meeting it will still be possible for you to complete the course.

GIFTS AND GRANTS

--NSF Grant of \$11,600 to F. M. Cholewinski (Math) for two-year research entitled, "Generalized Weierstrass, Borel, and Stieltjes Transformations".

--NASA Grant of \$12,720 to T. G. Proctor (Math) for one-year research entitled, "Studies on the Existence of Almost Periodic Solutions for Certain Differential and Functional Equations ...".

--Chevron Chemical Company, \$500 to Botany and Bacteriology for research on vegetable fungicide investigations.

--American Poultry & Hatchery Federation, \$1,000 to Poultry Science for studies on pathogenicity of Salmonella.

--Eli Lilly Company, Elanco Products, \$600 to Horticulture, for research on evaluation of certain chemicals as herbicides for the production of vegetable crops.

PERSONAL MENTION

--W. M. Dowler (USDA-Bot) presented a paper entitled "Dormant Season Susceptibility of Peach to Bacterial Canker not Related to Movement of Pseudomonas syringae" at the annual meeting of the American Phytopathological Society held in Washington, D. C., August 20-24. Flora D. King (USDA) is co-author.

--Cecil Cook Davis, (IM) has been elected a member of the American Institute of Certified Public Accountants. Professor Davis holds a CPA certificate from the State of South Carolina.

--Nokyoon Kwak (IM) has published a review article on "Business Forecasting Methods" in the Quarterly Review of Economics and Business, VII (Summer 1967).

--J. L. Richardson (IM & TS) conducted a seminar in "Methods Design and Time Study" at Auburn University, July 30-August 11.

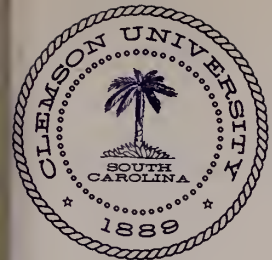
--Lyle C. Wilcox (EE) presented a paper entitled "Modeling the Dynamic Characteristics of Fibers" at the Textile Research Institute in Princeton, New Jersey on May 25.

--John D. Fulton (Math) presented a paper entitled, "Construction and Enumeration of Symmetric Involutory Matrices Over Finite Fields" at joint meetings of the Mathematical Association of America, American Mathematical Society, Society for Industrial and Applied Mathematics in Toronto, Canada, Aug. 28-31.

--W. R. Hare, Jr., (Math) presented a paper written jointly with J. W. Kenelly (Math) entitled, "Intersections of Maximal Starlike Sets" at joint meetings of the Mathematical Association of America, American Mathematical Society, Society for Industrial and Applied Mathematics in Toronto, Canada, Aug. 28-31.

--Dean L. G. Rich (College of Engr.) participated as a member of a committee at the Conference on Water Pollution Control Training held in Washington, D. C. on September 11-12.

--Dr. and Mrs. Mark S. Steadman, Jr., have been appointed Danforth Associates for a two-year term, 1967-1969. On August 18-23, Dr. and Mrs. Steadman attended a conference of the Danforth Associates at Estes Park, Colorado. The purpose of the Danforth Associates Program is to promote excellence in teaching, and to encourage closer student-teacher relationships. Dr. Steadman is Associate Professor of English.



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Oct. 5	Th	Woman's Club - Clemson House
Oct. 5	Th	Mr. John E. Jackson, Manager Films Management Systems, Olin Mathieson Chemical Corp., Pisgah Forest, N. C., will be the speaker for the School of Industrial Management and Textile Science Seminar at 2:00 p.m. in Sirrine Auditorium. Subject: "Opportunities in Data Processing".
Oct. 6	F	Freshman Football - Georgia at Clemson - 3 p.m.

FOREIGN LANGUAGE FILM SERIES - Fall Semester, 1967-68 - CE Auditorium

--All films have English subtitles with sound track in the language indicated.
There is no admission charge. All showings are on Monday evenings.

September 18	7 and 9 p.m.	THE GOOD SOLDIER SCHWEIK (German) Based on the novel by Jaroslav Hasek.
October 2	7 and 9:30 p.m.	DONA BARBARA (Spanish) From the novel by Romulo Gallegos (Venezuela).
October 9	7 and 9 p.m.	THE OVERCOAT (Russian) Based on the story by Nicolai Gogol.
October 23	7 and 9 p.m.	THERESE DESQUEYROUX (French) Based on the novel by Francois Mauriac. Best Actress Award, Venice Film Festival.
November 13	7 and 9 p.m.	AREN'T WE WONDERFUL (German) Based on the novel by Hugo Hartung. Best Film and Best Actor Award, Berlin Film Festival. Gold Medal, Moscow Film Festival.
November 20	7 and 9:30 p.m.	THE MOMENT OF TRUTH (Spanish) Color

AGRONOMY 825 - GRADUATE SEMINAR SCHEDULE - FALL, 1967
4 p.m. - Room A203 - Plant and Animal Science Building

<u>Date</u>	<u>Speaker</u>	<u>Topic</u>
Sept. 4	Dr. W. P. Byrd	Research data processing.
11	Dr. R. W. Henningson	The function of the Office of University Research.
18	Jerry C. Walker	Evaluation of biologically-active trifluralin residues in soils.
25	Dr. J. A. Wright	Implications of quantitative genetics.
Oct. 2	Karen M. LaFleur	The eye gnat, <u>Hippelates</u> spp.
9	Robert L. Stephens	Some effects of gibberellic acid on forage grasses.
16	Woodrow G. Strock, Jr.	The small forest landowner and some of the problems he faces.
23	Charles W. Robinson	Influence of vernolate on the selectivity of chloroxuron and surfactant for weed control in soybeans.
30	Herbert E. Raab	Soil chemistry of 2 minor plant nutrient elements.
Nov. 6	Ronald D. Oliphant	The effect of ploidy level on seed-set in inter- and intraspecific crosses.
13	Harvey Jurecek	Properties of soils derived from sericitic schist and Carolina slate.
20	Robert W. Hardaway	A comparison of some of the organic and inorganic arsenicals: Their toxicity to mammals, value as herbicides, and fate in the soil.
27	James H. Palmer	Triticale - a wheat x rye cross.
Dec. 4	Charles R. Lee	Growth of flax and soybeans in a high zinc medium.

MINUTES OF THE RESEARCH FACULTY COUNCIL MEETING

August 22, 1967

The monthly meeting of the Research Faculty Council was called to order at 4:00 p.m. in Room No. 101 of the Physics Building by Chairman Fox.

Members absent were: W. C. Mickelberry, A. S. Tombes, L. O. Drew, M. B. Bishop, J. J. Porter, and Lamar Brown.

The minutes of the July 18, 1967 meeting were approved as circulated.

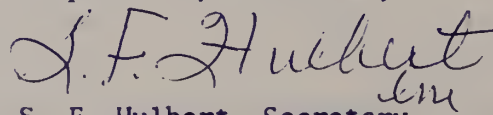
Chairman Fox expressed his appreciation to the Council members who acted as tour guides during the New Faculty Orientation Program and asked for their comments. These comments will be forwarded to Dean Hurst for consideration in planning the 1968 tour.

Considerable discussion concerning pay scales for technicians to assist faculty members conducting research was held. The Council asked Chairman Fox to discuss the matter with Dean Hurst.

The Policy Committee was asked by Chairman Fox to review present procedures for Out-of-State Travel approval.

The meeting was adjourned at 5:00 p.m.

Respectfully submitted,


S. F. Hulbert, Secretary

SFH/lm

RESEARCH FELLOWSHIPS

Information is available in the Office of University Research about the following Public Health Service Programs:

Special Research Fellowships
Predoctoral Research Fellowships
Postdoctoral Research Fellowships

PRESIDENT SIGNS BILL RAISING EDUCATIONAL BENEFITS FOR VETERANS

President Johnson signed into law Aug. 31 a veterans' pension and benefit bill raising monthly educational allowances for veterans and providing for payment of fees to colleges and universities which they attend. The educational provisions of the new law, Public Law 90-77, take effect Oct. 1.

Under the new law, veterans attending school or college under the GI bill of 1966 will receive the following monthly allowances:

<u>TYPE OF PROGRAM</u>	<u>NO DEPENDENTS</u>	<u>ONE DEPENDENT</u>	<u>TWO DEPENDENTS</u>	<u>ADDITIONAL DEPENDENTS</u>
Full-time student	\$130	\$155	\$175	\$10 each
Three-quarter time	95	115	135	7 each
Half-time	60	75	85	5 each
Cooperative program	105	125	145	7 each

The new law also provides full educational allowances to veterans who need to complete high school or take refresher courses in order to enter college, without reducing their eligibility for college benefits, consisting of one month's allowance for each month of active service.

--from Higher Education & National Affairs

BLUE CROSS OPENS ANNUAL RE-ENROLLMENT PERIOD

Representatives of Blue Cross-Blue Shield Insurance will be on campus September 25 through October 25, 1967. This is the annual re-enrollment period for group insurance available to all faculty members and other regular employees of Clemson University.

During this re-enrollment period any member of the Blue Cross-Blue Shield program may make changes (additions, deletions, etc.) if desired to fit their individual and/or family needs. Initial applications will also be accepted during this period for those who desire insurance coverage through this plan.

New employees may apply for insurance any time during their first 31 days of employment. Other employees may apply for insurance or request changes in present coverage only during the annual re-enrollment period, September 25 - October 25. Employees presently enrolled and desiring no changes will be automatically continued and need not contact the representatives at this time.

Appointments may be made with the representatives by telephoning Mr. W. J. Stamey in the Personnel Office, Ext. 365.

FACULTY SENATE SETS MEETING DATES

The Executive Committee of the Faculty Senate has set the meeting place, time and date for the 1967-68 Faculty Senate meetings as follows:

Meeting Place:	Auditorium of Olin Hall
Time:	4:15 P.M.
Dates:	Tuesday, August 29, 1967 Tuesday, September 26, 1967 Tuesday, October 24, 1967 Tuesday, November 14, 1967 Tuesday, December 5, 1967 Tuesday, January 23, 1968 Tuesday, February 27, 1968 Tuesday, March 26, 1968 Tuesday, April 23, 1968

EMERGENCY SELF-HELP PROGRAM

Alpha Phi Omega, a national service fraternity composed of former Boy Scouts of America, will sponsor an Emergency Self-Help Program from 7:30-8:30 PM on Wednesday nights beginning Sept. 13 and until Dec. 6 in the Ceramics Building auditorium. Faculty and staff are invited to participate. If you have missed the first meeting it will still be possible for you to complete the course.

GIFTS AND GRANTS

--NSF Grant of \$11,600 to F. M. Cholewinski (Math) for two-year research entitled, "Generalized Weierstrass, Borel, and Stieltjes Transformations".

--NASA Grant of \$12,720 to T. G. Proctor (Math) for one-year research entitled, "Studies on the Existence of Almost Periodic Solutions for Certain Differential and Functional Equations ...".

--Chevron Chemical Company, \$500 to Botany and Bacteriology for research on vegetable fungicide investigations.

--American Poultry & Hatchery Federation, \$1,000 to Poultry Science for studies on pathogenicity of Salmonella.

--Eli Lilly Company, Elanco Products, \$600 to Horticulture, for research on evaluation of certain chemicals as herbicides for the production of vegetable crops.

PERSONAL MENTION

--W. M. Dowler (USDA-Bot) presented a paper entitled "Dormant Season Susceptibility of Peach to Bacterial Canker not Related to Movement of Pseudomonas syringae" at the annual meeting of the American Phytopathological Society held in Washington, D. C., August 20-24. Flora D. King (USDA) is co-author.

--Cecil Cook Davis, (IM) has been elected a member of the American Institute of Certified Public Accountants. Professor Davis holds a CPA certificate from the State of South Carolina.

--Nokyoon Kwak (IM) has published a review article on "Business Forecasting Methods" in the Quarterly Review of Economics and Business, VII (Summer 1967).

--J. L. Richardson (IM & TS) conducted a seminar in "Methods Design and Time Study" at Auburn University, July 30-August 11.

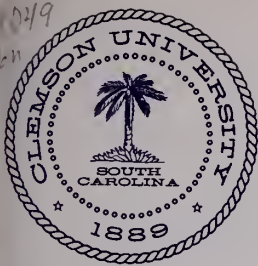
--Lyle C. Wilcox (EE) presented a paper entitled "Modeling the Dynamic Characteristics of Fibers" at the Textile Research Institute in Princeton, New Jersey on May 25.

--John D. Fulton (Math) presented a paper entitled, "Construction and Enumeration of Symmetric Involutory Matrices Over Finite Fields" at joint meetings of the Mathematical Association of America, American Mathematical Society, Society for Industrial and Applied Mathematics in Toronto, Canada, Aug. 28-31.

--W. R. Hare, Jr., (Math) presented a paper written jointly with J. W. Kenelly (Math) entitled, "Intersections of Maximal Starlike Sets" at joint meetings of the Mathematical Association of America, American Mathematical Society, Society for Industrial and Applied Mathematics in Toronto, Canada, Aug. 28-31.

--Dean L. G. Rich (College of Engr.) participated as a member of a committee at the Conference on Water Pollution Control Training held in Washington, D. C. on September 11-12.

--Dr. and Mrs. Mark S. Steadman, Jr., have been appointed Danforth Associates for a two-year term, 1967-1969. On August 18-23, Dr. and Mrs. Steadman attended a conference of the Danforth Associates at Estes Park, Colorado. The purpose of the Danforth Associates Program is to promote excellence in teaching, and to encourage closer student-teacher relationships. Dr. Steadman is Associate Professor of English.



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CLEMSON NEWSLETTER

INFORMATION FOR THE STAFF OF CLEMSON UNIVERSITY

Vol. 7 No. 4

October 1, 1967

CALENDAR: October 1 - October 15, 1967

Sept. 30	Sat	Football - Georgia at Clemson, 2:00 p.m. - IPTAY DAY
Oct. 2	M	Graduate Seminar, Agronomy 825, 4 p.m., Room A-203 P&AS. Karen M. LaFleur - The eye gnat, <u>Hippelates</u> spp.
Oct. 2	M	DONA BARBARA (Spanish) From the novel by Romulo Gallegos (Venezuela). 7 and 9:30 p.m., Civil Engineering Auditorium
Oct. 3	T	"B" Squad Soccer - Brevard at Brevard, 3:00 p.m.
Oct. 3	T	Sage Club Dinner Meeting, 6:30 p.m., Clemson House. Dr. W. H. Wiley, Dean of the College of Agriculture & Biological Sciences will speak about his recent tour of South America.
Oct. 4	W	Emergency Self-Help Program - 7:30-8:30 p.m., Olin Hall Aud.
Oct. 5	Th	Graduate Wives Club, 8:00 p.m., YMCA. Mrs. Elizabeth Woodruff will present a program on physical fitness.
Oct. 5	Th	Woman's Club, 3:45 p.m., Clemson House. Program subject: "Gems of Romance", an exhibit of world famous jewels.
Oct. 5	Th	Mr. John E. Jackson, Manager Films Management Systems, Olin Mathieson Chemical Corp., Pisgah Forest, N. C., will be the speaker for the School of Industrial Management and Textile Science Seminar at 2:00 p.m. in Sirrine Auditorium. Subject: "Opportunities in Data Processing".
Oct. 6	F	Soccer Game - Furman at Furman, 3:00 p.m.
Oct. 6	F	Lecture, 11:00 a.m., A203 P&AS; Fred L. McNatt, Agronomist, Allied Chemical Corporation, "Use of Liquid Ammonium Polyphosphates in Plant Nutrition".
Oct. 6	F	Freshman Football - Georgia at Clemson - 3 p.m.
Oct. 7	Sat	Football - Georgia Tech at Atlanta, 2 p.m.
Oct. 9	M	THE OVERCOAT (Russian) - Based on the story by Nicolai Gogol.
Oct. 9	M	Preliminary reports due
Oct. 9	M	Graduate Seminar, Agronomy 825, 4 p.m., Room A-205 P&AS. Robert L. Stephens - Some effects of gibberellic acid on forage grasses.

CALENDAR (Continued)

Oct. 10-11	T-W	The Fourth Annual Seminar for High School Counselors on Engineering Education will be held in the College of Engineering. This annual seminar held each year is sponsored by the College of Engineering.
Oct. 10	T	Soccer Game - Erskine at Clemson, 3 p.m.
Oct. 11	W	Emergency Self-Help Program - 7:30-8:30 p.m., Olin Hall Aud.
Oct. 11	W	Fine Arts Film Club, 8 p.m., CE Auditorium KIND HEARTS AND CORONETS LANDSCAPE OF THE BODY
Oct. 12	Th	A panel of members of the Young Presidents' Organization, 1:30 p.m., Sirrine Auditorium, for the School of Industrial Management and Textile Science Seminar.
Oct. 13	F	Freshman Football - Duke at Durham, 3:00 p.m.
Oct. 14	Sat	Football - Auburn at Auburn - 1:30 (CST) p.m.
Oct. 16	M	Graduate Seminar, Agronomy 825, 4 p.m., Room A-203 P&AS. Woodrow G. Strock, Jr. - The small forest landowner and some of the problems he faces.
Oct. 17	T	Soccer - Duke at Clemson, 3:00 p.m.
Oct. 18	W	Emergency Self-Help Program, 8:30 p.m., Olin Hall Auditorium
Oct. 18	W	Clemson Funeral Society, 8:00 p.m., YMCA
Oct. 18	W	"B" Squad Soccer - Emory-at-Oxford at Oxford, 3:00 p.m.
Oct. 19	Th	Dr. Fred Basolo, Professor of Chemistry, Northwestern University, will lecture on a topic in modern inorganic chemistry, Room 131 Brackett Hall at 4:00 p.m.
Oct. 20	F	Soccer - University of North Carolina at Chapel Hill, 3:00 p.m.
Oct. 20-21	F-Sat	The second seminar for High School Counselors will be conducted in Sirrine Hall under the auspices of the J. E. Sirrine Textile Foundation.

HIGH SCHOOL VISITATION DAY RESCHEDULED

In order to provide suitable accommodations, the decision was made to reschedule High School Visitation Day from the Georgia game of Sept. 30 to the North Carolina State game of Nov. 18.

It would be appreciated if you would notify as many high school students as possible that High School Visitation Day will be on this rescheduled date, Nov. 18.

CLEMSON HOSTS MATHEMATICS CONFERENCE

Clemson University was host, from August 14 through August 16, 1967, to a specialized conference on "Projections and Related Topics", organized by Andrew Sobczyk (Math). Following is a list of the formal speakers and their topics:

"On Various Types of Projections (Bounded Linear, Closed Linear and Non Linear) in Banach Spaces," by Professor Joram Lindenstrauss, Hebrew University, Jerusalem, Israel;

"Uses of Projections of Positive Bases in Finite Dimensional Linear Spaces," by Professor John R. Reay, Western Washington State College, Bellingham;

"Complemented Subspaces in Nuclear Frechet Spaces," by Professor Czeslaw Bessaga, University of Warsaw, Poland;

"Injective Spaces and Injective Envelopes," by Professor John R. Isbell, Case Institute-Western Reserve University, Cleveland, Ohio;

"On Injective Envelopes of Banach Spaces," by Professors H. Elton Lacey, University of Texas, and Henry B. Cohen, University of Pittsburgh;

"Notes About Projective and Injective Banach Spaces," by Professor Nick Metas, Queens College, Flushing, New York;

"Two Unsolved Problems Concerning Metric Projections," by Professor Victor Klee, University of Washington, Seattle;

"On Metric Projections Onto Linear Subspaces of Normed Linear Spaces," by Professor Ivan Singer, University of Bucharest, Roumania;

"Linear Extensions of Isometries," by Professor Sobczyk;

"Discontinuity of Metric Projections," by Professor Peter D. Morris, The Pennsylvania State University;

"Projection and Extension Constants In Continuous Function Spaces," by Professor Dan Amir, Israel Institute of Technology, Haifa, Israel;

"The Equicontinuous Projective Topology," by Professor C. W. McArthur, The Florida State University, Tallahassee;

"Distinctive Properties of Stone-Cech Compactifications," by Professor Meyer Jerison, Purdue University;

"On a Class of Non-Proximinal Projections and Their Application to the Extension of Contractions," by Professors L. A. Karlovitz and D. G. DeFigueriredo, University of Maryland;

"On Visual Hulls," by Professors W. A. Beyer and S. M. Ulam, Los Alamos Scientific Laboratory, New Mexico, and University of Colorado, Boulder;

"Schauder Bases of Subspaces: Some Problems," by Professor J. R. Retherford, Louisiana State University, Baton Rouge;

CLEMSON HOSTS MATHEMATICS CONFERENCE (Continued)

"Representations of Commutative Complex Algebras With Involution,"
by Professor Jesus Gil de Lamadrid, University of Minnesota,
Minneapolis;

"Euclidean Simplices and the Ramsey Number $N(4,4; 3)$ " by Professor
Sobczyk.

Five additional papers have been submitted by title, for inclusion
in a volume of Proceedings of the Conference which is to be published.

SOUTH CAROLINA STATE EMPLOYEES' ASSOCIATION

Any regular Clemson University employee may join the South Carolina State Employees' Association by payment of the annual dues. This Association works for all state employees in the areas of salary, insurance, and retirement benefits. Members of the Association become eligible for group insurance (life, hospital, surgical and accident) offered by Pilot Life Insurance Company at reasonable rates. A member of the Association may also join the SCSEA Cooperative Credit Union, which provides for systematic savings and low cost borrowing. Anyone interested in group insurance through the Association should contact Mr. W. J. Stamey, Extension 365. Others who would like to become members of the Association should contact G. W. Brandt, Extension 230, S. A. Dillard, Extension 280, or J. L. Edwards, Extension 229, Clemson representatives on the Association's board of directors.

*** Addendum - For the information of the employees of Clemson University, I should like to state that I am in accord with the invitation extended above, and that I believe the South Carolina State Employees' Association to be an organization dedicated to the interests of all state employees.

/s/ Robert C. Edwards
President

REQUEST FOR PROPER ADDRESSING FOR U. S. MAIL

Some of the U. S. mail arriving for members of the faculty and staff is simply addressed to them in Clemson, S. C., or to Clemson University. The Post Office Department cannot use a directory service. This means, then, that unless you are known personally to the mailman that he is at a loss as to where to deliver such mail. By the time the mail reaches you it can hardly be classified as "first class" in terms of time involved.

Faculty and staff can remedy this situation by making clear to their correspondents their correct mailing address.

MINUTES OF THE FACULTY SENATE

August 29, 1967

The first meeting of the Faculty Senate during the 1967-68 academic year was held on August 29, 1967, in Olin Hall Auditorium, beginning at 4:17 p.m. Dr. James N. Thurston, President, presided.

After the minutes of the April meeting were approved as presented, the membership of various standing committees was announced and a Secretary of the Senate, Mrs. Rameth R. Owens, was elected, replacing Dr. Henry Vogel who had served since April.

Several items of business carried over from 1966-67 were considered. The first of these was the twelve-month salary option which the university is making available to faculty. Another item considered by the Senate was its proposal to the Education Council concerning membership of the Honorary Degree Committee. This proposal had been sent back to the Senate by the Council and was, in turn, referred to the Senate's Policy Committee. A third item of business concerned the Admissions and Scholarship Committee; the committee was asked to explore further the possibilities of eliminating Saturday classes on the one hand and on the other of establishing a school of freshman studies. Sending a list of textbooks to incoming freshman was the fourth subject discussed. It was reported that Dean Hurst supports the idea of sending such a list, if the Faculty Senate provides the list. No action was taken. The last item of business from 1966-67 was faculty work load. It was reported that a policy on work load will be incorporated into the new faculty handbook by Dean Hurst whose recommendations will be sent to the President of the Faculty Senate.

Subjects presented during the meeting for consideration in 1967-68 were (1) a proposal concerning selection of administrative officers which was introduced by Dr. J. G. Dinwiddie and submitted to the Policy Committee, (2) a proposal concerning validation of candidates for graduation which was also presented by Dr. Dinwiddie and referred to the Admissions and Scholarships Committee, (3) recommendation concerning faculty housing for female faculty members which was made by Dr. J. M. Wannamaker and given to the Welfare Committee, (4) suggestion that Policy Committee should consider regulating the size of the Faculty Senate, (5) recommendation that annuities for faculty be considered by the Welfare Committee, (6) suggestion that consolidation of Faculty Senate and Faculty Research Council might be considered, and (7) suggestion that Welfare Committee consider the problem of faculty recreation and exercise and the possibility of a faculty club.

The meeting was adjourned at 5:03 p.m.

Respectfully submitted,

Rameth Owens (Mrs. Walton H., Jr.)
Secretary

MINUTES OF THE FACULTY SENATE (Continued)

Absent: R. A. Banister (resigned), H. H. McGarity, W. C. Godley, R. C. Harshman, A. T. Hind, R. F. Mixon, A. F. Newton, Mrs. R. Owens, J. E. Pinckney, J. K. Reed, J. L. Richardson, T. L. Senn.

DANFORTH FELLOWSHIP NOMINATION DEADLINE

Deadline for nominations of seniors and recent graduates for Danforth Fellowships is November 1, 1967. Faculty members are requested to urge well qualified seniors to apply for these fellowships in order that the University may nominate the best candidates possible.

The Fellowships are open to men and women who are seniors or recent graduates of accredited colleges in the United States, who have serious interest in college teaching as a career, and who plan to study for a Ph.D. in a field common to the undergraduate college. Applicants may be single or married, must be less than thirty years of age at the time of application, and may not have undertaken any graduate or professional study beyond the baccalaureate. The Fellowships are open to persons of any creed, race, or citizenship.

Students should consult with F. I. Brownley, Jr. in the Graduate Office for specific information.

WILLSON JOINS SUMTER FACULTY

Mr. Fred A. Willson, a graduate of the University of South Carolina and a Certified Public Accountant, joins the faculty of Clemson University at Sumter as Visiting Instructor in Industrial Management. Mr. Willson is married, has three children and resides at 655 Henderson Street, Sumter.

CLEMSON FUNERAL SOCIETY MEETING

The Clemson Funeral Society, which provides unbiased information for funeral planning, will meet on October 18, 8:00 p.m., in the YMCA. All staff members are invited to join. For information call R. W. Rutledge, 654-2629.

Enrollment by Courses and Academic Classification
Clemson University
First Semester 1967-1968

Major Course	Freshman (Semester)		Sophomore (Semester)		Junior (Semester)		Senior (Semester)		Total
	1st	2nd	1st	2nd	1st	2nd	1st	2nd	
Agriculture	6	0	1	0	0	0	0	0	7
Agricultural Economics	8	4	14	2	15	2	7	15	67
Agricultural Engineering	14	3	7	2	7	0	2	3	38
Agronomy	7	5	11	2	7	1	4	6	43
Animal Science	2	3	7	1	10	3	9	9	44
Biology	28	10	43	11	39	13	20	20	184
Dairy Science	3	1	4	1	4	0	2	3	18
Entomology	0	0	1	0	3	0	0	1	5
Food Science	7	1	6	0	1	1	2	2	20
Forestry	59	11	19	5	10	7	11	18	140
Horticulture	11	1	4	2	9	3	7	6	43
Poultry Science	4	1	3	1	2	1	0	2	14
Pre-Veterinary	43	7	11	3	7	1	0	0	72
Sub-Total	192	47	131	30	114	32	64	85	695
Architecture	13	6	52	8	41	21	39(a)	38(b)	218
Building Construction	8	2	10	3	16	6	8(c)	9	62
Pre-Architecture	69	3	0	3	1	0	1	0	77
Sub-Total	90	11	62	14	58	27	48	47	357
Arts and Sciences	202	47	137	39	107	35	72	50	689
Chemistry	32	2	12	3	14	1	4	4	72
Geology	3	0	6	4	5	2	2	3	25
Mathematics	59	8	34	3	32	6	18	12	172
Medical Technology	17	0	4	3	0	1	0	2	27
Nursing	34	0	24	1	0	0	0	0	59
Physics	13	2	8	0	13	1	5	2	44
Pre-Medicine	122	8	70	16	49	15	38	11	329
Pre-Pharmacy	16	1	6	1	1	0	1	0	26
Sub-Total	498	68	301	70	221	61	140	84	1443
Agricultural Education	22	6	5	6	19	6	8	14	86
Elementary Education	32	1	10	10	26	3	6	0	88
Industrial Education	12	8	13	6	14	11	5	17	86
Recreation & Park Adm.	43	23	41	38	43	25	9	4	226
Secondary Education	44	5	14	4	26	5	8	9	115
Science Teaching	3	1	12	8	10	5	9	9	57
Sub-Total	156	44	95	72	138	55	45	53	658
Engineering	69	0	1	0	0	0	0	0	70
Ceramic Engineering	16	5	13	1	15	2	18	5	75
Chemical Engineering	76	9	49	4	31	6	19	10	204
Civil Engineering	104	20	58	13	62	10	32	25	324
Electrical Engineering	115	11	61	9	47	18	26	28	315
Industrial Engineering	0	0	0	5	4	0	9	18	36
Mechanical Engineering	105	20	64	13	31	13	29	27	302
Metallurgical Engineering	5	1	3	1	6	0	3	1	20
Sub-Total	490	66	249	46	196	49	136	114	1346
Economics	26	10	17	19	57	27	36	15	207
Industrial Management	111	26	99	30	113	45	47	73	544
Textile Chemistry	18	1	2	1	4	1	3	5	35
Textile Management	0	0	0	0	0	2	0	13	15
Textiles	32	6	18	2	9	9	9	1	86
Textile Science	0	0	0	0	0	0	0	1	1
Sub-Total	187	43	136	52	183	84	95	103	888
Total	1613	279	974	284	910	308	528	491	5387
Graduates - Master's Level	Part Time						Full Time		
Graduates - Ph. D. Level	197(d)						258		455
Postgraduates	75						106		181
Non-Degree Students	8						6		14
Total	12						8		20
	292						378		670
Grand Total									6057
Greenville Center									239
Sumter Center									178
Overall Total									6474

- (a) Includes seven who are in the first semester of the fifth year.
 (b) Includes ten who are in the second semester of the fifth year.
 (c) Includes one who is in the first semester of the fifth year.
 (d) Includes forty-one off-campus at Greenville.

Enrollment by Men and Women - Full Time and Part Time

First Semester 1967-1968

Classification	Men			Women			Total		
	Full Time	Part Time	Total	Full Time	Part Time	Total	Full Time	Part Time	Total
1st Sem. Freshmen	1382	1	1383	228	2	230	1610	3	1613
2nd Sem. Freshmen	251	1	252	27	0	27	278	1	279
Sub-Total	1633	2	1635	255	2	257	1888	4	1892
1st Sem. Sophomore	850	1	851	123	0	123	973	1	974
2nd Sem. Sophomore	251	1	252	31	1	32	282	2	284
Sub-Total	1101	2	1103	154	1	155	1255	3	1258
1st Sem. Junior	806	5	811	97	2	99	903	7	910
2nd Sem. Junior	280	1	281	24	3	27	304	4	308
Sub-Total	1086	6	1092	121	5	126	1207	11	1218
1st Sem. Senior	474	1	475	45	0	45	519	1	520
2nd Sem. Senior	450	12	462	13	6	19	463	18	481
Sub-Total	924	13	937	58	6	64	982	19	1001
1st Sem. Fifth Year	8	0	8	0	0	0	8	0	8
2nd Sem. Fifth Year	10	0	10	0	0	0	10	0	10
Sub-Total	18	0	18	0	0	0	18	0	18
Total	4762	23	4785	588	14	602	5350	37	5387
Graduate - Master's Level	228	129	357	30	68	98	258	197	455
Graduate - Ph. D. Level	102	73	175	4	2	6	106	75	181
Postgraduates	6	7	13	0	1	1	6	8	14
Non-Degree Students	3	5	8	5	7	12	8	12	20
Total	339	214	553	39	78	117	378	292	670
Grand Total	5101	237	5338	627	92	719	5728	329	6057
Greenville Center	195	3	198	39	2	41	234	5	239
Sumter Center	132	3	135	39	4	43	171	7	178
Overall Total	5428	243	5671	705	98	803	6133	341	6474

ENROLLMENT TRENDS

TABLE I--FIRST-SEMESTER UNDERGRADUATE ENROLLMENT BY COLLEGES OR SCHOOLS

College or School	1962- 1963	1963- 1964	1964- 1965	1965- 1966	1966- 1967	1967- 1968
Agriculture and Biological Sciences ¹	565	555	584	551	608	695
Architecture	269	276	289	342	323	357
Arts and Sciences ^{3, 4}	775	926	1095	1374	1530	1443
Education ^{1, 2, 3}				111	307	658
Engineering ²	1532	1534	1494	1504	1484	1346
Industrial Management and Textile Science ⁴	893	786	754	727	734	888
Total	4034	4077	4216	4609	4986	5387

TABLE II--PER CENT OF UNDERGRADUATE STUDENT ENROLLMENT BY COLLEGES OR SCHOOLS

College or School	1962- 1963	1963- 1964	1964- 1965	1965- 1966	1966- 1967	1967- 1968
Agriculture and Biological Sciences ¹	14.0	13.6	13.9	12.0	12.2	12.9
Architecture	6.7	6.8	6.8	7.4	6.5	6.6
Arts and Sciences ^{3, 4}	19.2	22.7	26.0	29.8	30.7	26.8
Education ^{1, 2, 3}				2.4	6.1	12.2
Engineering ²	38.0	37.6	35.4	32.6	29.8	25.0
Industrial Management and Textile Science ⁴	22.1	19.3	17.9	15.8	14.7	16.5
Total	100.0	100.0	100.0	100.0	100.0	100.0

1. Agricultural Education included under Agriculture and Biological Sciences through 1964-1965.

2. Industrial Education included under Engineering through 1964-1965.

3. Science Teaching included under Arts and Sciences through 1964-1965.

4. Economics included under Arts and Sciences through 1966-1967.

TABLE III--FIRST-SEMESTER ENROLLMENT OF FIRST-SEMESTER FRESHMEN BY COLLEGES OR SCHOOLS

College or School	1962- 1963	1963- 1964	1964- 1965	1965- 1966	1966- 1967	1967- 1968
Agriculture and Biological Sciences ¹	152	147	153	161	168	192
Architecture	106	89	85	102	72	90
Arts and Sciences ^{3, 4}	224	273	370	472	425	498
Education ^{1, 2, 3}				11	66	156
Engineering ²	551	550	560	584	550	490
Industrial Management and Textile Science ⁴	201	167	161	203	165	187
Total	1234	1226	1329	1533	1446	1613

TABLE IV--PER CENT OF FIRST-SEMESTER FRESHMAN ENROLLMENT BY COLLEGES OR SCHOOLS

College or School	1962- 1963	1963- 1964	1964- 1965	1965- 1966	1966- 1967	1967- 1968
Agriculture and Biological Sciences ¹	12.3	12.0	11.5	10.5	11.6	11.9
Architecture	8.6	7.2	6.4	6.7	5.0	5.6
Arts and Sciences ^{3, 4}	18.2	22.3	27.9	30.8	29.4	30.9
Education ^{1, 2, 3}				.7	4.6	9.6
Engineering ²	44.6	44.9	42.1	38.1	38.0	30.4
Industrial Management and Textile Science ⁴	16.3	13.6	12.1	13.2	11.4	11.6
Total	100.0	100.0	100.0	100.0	100.0	100.0

1. Agricultural Education included under Agriculture and Biological Sciences through 1964-1965.

2. Industrial Education included under Engineering through 1964-1965.

3. Science Teaching included under Arts and Sciences through 1964-1965.

4. Economics included under Arts and Sciences through 1966-1967.

GIFTS AND GRANTS

--National Turkey Federation, \$1,500 to Food Science and Biochemistry for studies on turkey fat stability by in vivo protection.

--Norwich Pharmacal Company, \$8,500 to Poultry Science for studies on diseases of poultry to be conducted by Dr. J. F. Stephens.

--John F. Andrews (ESE), Professor of Environmental Systems Engineering, has been awarded a one year grant to conduct research entitled, "Thermophilic Aerobic Process for Waste Treatment," by the United States Public Health Service. The total value of this one year grant is \$32,655.

PERSONAL MENTION

--John T. Acorn (Arch) has been elected Vice-President of the Southern Association of Sculptors at their annual meeting held in Asheville, North Carolina, on Saturday, September 9, 1967.

--W. C. Mickelberry (FdSci & Biochem) was chairman of one of the Marketing Technical Sessions at the 56th Annual Poultry Science Association Meetings held at Durham, New Hampshire, August 21-25. Dr. Mickelberry also presented a paper entitled "The Influence of Rearing Temperature and Diet Upon the Frozen Storage Stability of Broiler Carcasses."

--A. L. Shewfelt (FdSci & Biochem) is the newly elected chairman of the Dixie Section Institute of Food Technologists. This organization is composed of professional food scientists in South Carolina, Georgia, Alabama and Tennessee. W. C. Mickelberry (FdSci & Biochem) is the outgoing chairman.

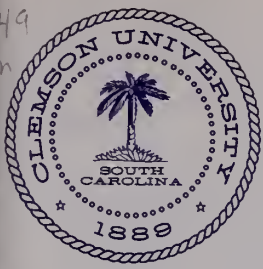
--John F. Pearce (Econ) has been awarded a diploma conveying the Chartered Life Underwriters status. The award is made by the American College of Life Underwriters in acknowledgment of the successful completion of a broad program of study in the insurance field. In addition to examinations covering the program of study Dr. Pearce has completed the experience requirements for the diploma by the teaching of insurance courses.

--Claud B. Green (Summer Sessions) served as a member of a committee from the Southern Association of Colleges and Schools evaluating the Florida State University Program at Eglin Air Force Base, September 24-26.

--Henry G. Lefort (CerE) presented a paper entitled "Inorganic Coatings of Prosthetic Quality" at the Fall meeting of the Ceramic-Metal Systems Division of the American Ceramic Society in French Lick, Indiana, September 10-13, 1967.

--C. C. Fain (CerE) received his doctorate from Ohio State University in September. The title of his dissertation is: "Strengthening Mechanisms in Electrical Porcelain".





CLEMSON NEWSLETTER

INFORMATION FOR THE STAFF OF CLEMSON UNIVERSITY

Vol. 7 No. 5

October 15, 1967

CALENDAR: October 15 - October 31, 1967

- Oct. 14-31 Sat-T Exhibit of the "Guerrero Stones". A showing of a priceless jewel-like exhibit in the Rudolph Lee Gallery to be shown through Oct. 31.
- Oct. 14 Sat Football - Auburn at Auburn, 1:30 (CST) p.m.
- Oct. 16 M Graduate Seminar, Agronomy 825, 4 p.m., Room A-203 P&AS.
Woodrow G. Strock, Jr. - The small forest landowner and some of the problems he faces.
- Oct. 17 T Faculty Research Council, 4 p.m., Room 1 Physics
- Oct. 17 T Soccer - Duke at Clemson, 3 p.m.
- Oct. 18 W Clemson Funeral Society, 8 p.m., YMCA
- Oct. 18 W Emergency Self-Help Program - 7:30-8:30 p.m., Olin Hall Aud.
- Oct. 18 W "B" Squad Soccer, Emory-at-Oxford at Oxford, 3 p.m.
- Oct. 18 W Meeting of principal investigators and interested staff of the Water Resources Research Institute. Reports of Water Resources Research supported by the Institute will be presented and discussed. All interested staff and students are invited - 7:00 to 9:00 p.m., Room 209, Agricultural Engineering Building.
- Oct. 19 Th Dr. Fred Basolo, Professor of Chemistry, Northwestern University, will lecture on a topic in modern inorganic chemistry, Room 131, Brackett Hall, 4 p.m.
- Oct. 19-20 Th-F Air and Water Pollution Control Seminar at the Clemson House and Earle Hall, sponsored by the College of Engineering, American Institute of Plant Engineers and South Carolina Pollution Control Authority.
- Oct. 20 F Soccer - University of North Carolina at Chapel Hill, 3 p.m.
- Oct. 20 F Freshman Football - South Carolina at Clemson, 3 p.m.
- Oct. 20-21 F-Sat The second seminar for High School Counselors will be conducted in Sirrine Hall under the auspices of the J. E. Sirrine Textile Foundation.

Oct. 21	Sat	Football - Duke at Durham, 2 p.m.
Oct. 23	M	Dr. A. M. Haas, distinguished expert in the design of concrete shells, of Delft, Holland, will be a visiting structural critic in the School of Architecture the week of October 23-27. Mr. Haas will be sponsored by the Clemson Architectural Foundation, and he will present a public lecture at 8:00 p.m., Monday, Oct. 23, in the Auditorium of the School of Architecture.
Oct. 23	M	Foreign Language Film - THERESE DESQUEYROUX (French). Based on the novel by Francois Mauriac. Best Actress Award, Venice Film Festival. 7 p.m. and 9 p.m., Civil Engineering Auditorium.
Oct. 23	M	Graduate Seminar, Agronomy 825, 4 p.m., Room A-203 P&AS. Charles W. Robinson - Influence of vernolate on the selectivity of chloroxuron and surfactant for weed control in soybeans.
Oct. 24	T	Graduate Record Examination required of all seniors
Oct. 24	T	Faculty Senate, 4:15 p.m., Olin Hall Auditorium
Oct. 25	W	Meeting of principal investigators and interested staff of the Water Resources Research Institute. Reports of Water Resources Research supported by the Institute will be presented and discussed. All interested staff and students are invited - 7:00 to 9:00 p.m., Room 209, Agricultural Engineering Building.
Oct. 25	W	Emergency Self-Help Program - 7:30-8:30 p.m., Olin Hall Aud.
Oct. 25	W	Mr. Robert Wallace, Poet and Associate Professor of English at Western Reserve University, will give a reading from his poetry at 4 p.m., Room 101 Physics. Mr. Wallace is the author of two volumes of poetry, <u>Views from a Ferris Wheel</u> and <u>Ungainly Things</u> .
Oct. 26	Th	Concert - Czech Philharmonic Orchestra, 8 p.m., Field House
Oct. 27	F	Soccer Game - Oglethorpe at Clemson, 3 p.m.
Oct. 27	F	Freshman Football - Georgia Tech at Clemson, 3 p.m.
Oct. 27-28	F-Sat	Autumn Ball - Dining Hall
Oct. 28	Sat	Football - Alabama at Clemson (Dad's Day), 2 p.m.
Oct. 30	M	Soccer Game - Maryland at Maryland, 3 p.m.
Oct. 30	M	Graduate Seminar, Agronomy 825, 4 p.m., Room A-203 P&AS. Herbert E. Raab - Soil chemistry of two minor plant nutrient elements.
Nov. 1	W	"B" Squad Soccer, Emory-at-Oxford at Clemson, 3 p.m.

Nov. 1	W	Fine Arts Film Club - TRIUMPH OF THE WILL - 8 p.m., CE Aud.
Nov. 1	W	Emergency Self-Help Program - 7:30-8:30 p.m., Olin Hall Aud.
Nov. 2	Th	Woman's Club, Clemson House, 8 p.m.
Nov. 2	Th	Graduate Wives Club, 8 p.m., YMCA. Program will be on home safety.
Nov. 2	Th	"B" Squad Soccer, Brevard at Clemson, 3 p.m.
Nov. 2-4	Th-Sat	The Southeastern Section of the American Physical Society's Annual Meeting with the Department of Physics as host.
Nov. 4	Sat	Football - North Carolina at Chapel Hill, 1:30 p.m.
Nov. 4	Sat	"B" Squad Soccer, Warren Wilson Junior Varsity at Clemson, 1 p.m.
Nov. 4	Sat	Soccer - Warren Wilson at Clemson, 3 p.m.

NEWSLETTER DEADLINE DATES

The Newsletter is published on the 1st and 15th of each month. The deadlines for receiving informational items are the 8th and 23rd of each month. Items received after these dates will be published in the next issue provided their appearance is still appropriate.

PHYSICAL SOCIETY MEETS AT CLEMSON

The Southeastern Section of the American Physical Society will hold its annual meeting in Clemson on November 2, 3, and 4 with the Department of Physics acting as host. It is anticipated that there will be about 450 physicists in attendance from points as far away as Texas and Maryland. There will be 156 contributed papers and 34 invited papers by nationally known experts in their field. A complete program will appear in the next issue of the Newsletter.

MINUTES OF THE RESEARCH FACULTY COUNCIL MEETING

September 9, 1967

The monthly meeting of the Research Faculty Council was called to order at 4:00 P.M. in Room No. 101 of the Physics Building by Chairman Fox.

Members absent were: W. P. Byrd, G. R. Craddock, L. O. Van Blaricom, E. M. Lander, and W. B. Barlage.

The minutes of the August 22, 1967 meeting were approved as circulated.

U. S. Jones, Chairman of Research Faculty Council Policy Committee, reviewed present procedures for out-of-state travel approval. Considerable discussion followed concerning the problems associated with present procedures. The Policy Committee was asked to prepare a recommendation for the next meeting of the Research Faculty Council.

M. B. Bishop announced that the University Ad Hoc Safety Committee (consisting of E. M. McCarter, Chairman; C. E. Littlejohn, M. B. Bishop, T. D. Efland, N. R. Page, and J. A. Stanley) was in the process of writing a safety code. A discussion was held concerning the need for a full time safety inspector and the consensus of the Council was to support this appointment.

Considerable discussion was held again concerning pay scales for technicians to assist faculty members conducting research. This area will be investigated further.

It was suggested that all Faculty Academic Standing Committees publish their official minutes in the Clemson Newsletter.

Chairman Fox announced that the President of the Faculty Senate, past President of the Faculty Senate, and Chairman of the Research Faculty Council will be members of the committee which selects recipients for honorary degrees.

The meeting was adjourned at 5:05 P.M.

Respectfully submitted,

Samuel F. Hulbert
Secretary

SFH/lm

RESEARCH PROPOSALS INVITED BY WATER RESOURCES RESEARCH INSTITUTE

The Directorate of the Water Resources Research Institute of Clemson University has approved a schedule for accepting new project proposals and requests for funds for research to be supported by the Institute for the fiscal year 1968-69 as follows:

December 1, 1967 - Submission of proposals requesting allotment funds for FY 1968-69

January 1, 1968 - Submission of proposals requesting matching grant funds (Sec. 101) for research to be initiated July 1, 1968.

Interested staff are encouraged to submit research proposals for any area of water resources. For further information, contact Dr. A. W. Snell, Head of the Agricultural Engineering Department, and Chairman of the Directorate, Water Resources Research Institute, Clemson University, Clemson, South Carolina.

FACULTY BASIC RESEARCH COMMITTEE APPROVES GRANTS

The Faculty Basic Research Committee, meeting on September 22, made the following grants:

1. Dr. J. D. Antrim, Civil Engineering, \$350 for a study entitled "Further Evaluation of the Ignition Method for Asphalt Content Determination." This project is also supported by the Civil Engineering Department.
2. Dr. Harriet R. Holman, English and Modern Languages, \$1,073 for a continuation of a critical study of Thomas Nelson Page.
3. Dr. J. J. Porter, Textile Chemistry, \$700 for an extension of his project entitled "Preparation of Silver and Palladium Complexes of Pyridazine Phthalazine, 3, 4, 8, 9 tetraazapyrene -1, 6 dicarboxylic acid.

TABLE I

CLEMSON UNIVERSITY GRADUATE ENROLLMENT BY DEPARTMENTS & PROGRAMS

First Semester, 1967-68

<u>Dept. or Program</u>	<u>#</u>	<u>Dept. or Program</u>	<u>#</u>
Agricultural Economics	28	English	28
Agricultural Education	3	Entomology & Zoology	49
Agricultural Engineering	7	Environmental Systems Engineering	18
Agronomy	13	Food Science & Bio-Chemistry	5
Animal Science	8	Forestry	8
Architecture	5	History	12
Bio-Engineering	8	Horticulture	16
Botany	9	Industrial Education	13
Ceramic Engineering	12	Industrial Management	29
Chemical Engineering	30	Materials Engineering	1
Chemical Physics	4	Mathematics	52
Chemistry	52	Mathematics-Education	41
Civil Engineering	24	Mechanical Engineering	21
Dairy Science	7	Physics	40
Economics	3	Plant Pathology	8
Education	28	Poultry Science	10
Electrical Engineering	19	Textile Chemistry	12
Engineering Management	9	Water Resources Engineering	6
Engineering Mechanics	3		
		Total	<u>641</u>

CLEMSON UNIVERSITY
FACULTY SENATE ROSTER 1967-1968
CORRECTED AS OF September 25, 1967

<u>Name</u>	<u>Dept.</u>	<u>Campus Address</u>	<u>Telephone</u>	<u>Term Ends</u>
<u>AGRICULTURE AND BIOLOGICAL SCIENCES</u>				
E. B. Eskew	Agron.	205 P&AS	297	1968
T. L. Senn	Hort.	162 P&AS	220	1968
J. B. Whitney	Bot.	218 Long	329	1968
J. K. Reed	Ent.	301 Long	308	1969
W. C. Godley	Ani. Sci.	213 P&AS	286	1970
J. R. Warner	For.	151 P&AS	373	1970

ARCHITECTURE

J. E. Pinckney	---	116 Arch.	426, 427	1968
R. T. Reep	---	110 Arch	426, 427	1968
V. S. Hodges	---	115 Arch.	426, 427	1970

ARTS AND SCIENCES

A. T. Hind	Math	0-109 Classroom	387	1968
Miss Harriet Holman	Engl.	0-225 Classroom	383	1968
H. G. Spencer	Chem.	109 Brackett	239	1968
M. S. Steadman	Engl.	0-302 Classroom	383	1968
H. E. Vogel	Phys.	119 Physics	253	1968
J. P. Winter	Engl.	0-201 Classroom	383	1968
S. M. Lukawecki	Math.	0-310 Classroom	387	1969
M. G. Miller	Phys.	208 Physics	253	1969
R. F. Mixon	Mod. Lang	0-2 Classroom	383	1969
Eugene Park	Math	0-110 Classroom	387	1969
W. C. Capel	Soc. Sci.	B-5 Hardin	296	1970
J. G. Dinwiddie	Chem.	303 Brackett	355	1970
L. D. Huff	Phys.	303 Physics	253	1970
Mrs. Rameth Owens	Soc. Sci.	116 Hardin	296	1970
J. V. Reel	Soc. Sci.	209 Hardin	296	1970

EDUCATION

A. F. Newton	Ind. Ed.	110 Ind. Engr.	441	1968
H. Brantley	RPA	108-D Education	264	1969
A. K. Jensen	Ag. Ed.	109 I.E. Bldg.	429	1970

ENGINEERING

J. D. Antrim	CE	212 CE	223	1968
S. F. Hulbert	Cer. Engr.	29 Earle	356	1968
R. C. Harshman	CE	203 Earle	357	1968
D. W. Bradbury	ME	304 Riggs	229	1969

<u>Name</u>	<u>Dept.</u>	<u>Campus Address</u>	<u>Telephone</u>	<u>Term Ends</u>
<u>ENGINEERING (CONT.)</u>				
R. F. Nowack	EM	210 CE	265	1969
F. C. Alley	ChE	209 Earle	357	1970
J. N. Thurston	EE	211 Riggs	227	1970

INDUSTRIAL MANAGEMENT AND TEXTILE SCIENCE

J. L. Richardson	IM	310 Sirrine	332	1968
J. M. Wannamaker	IM	312 Sirrine	350	1968
J. H. Marvin	Text.	325 Sirrine	337	1969
D. W. Lyons	Text.	312-D Sirrine	421	1970

OFFICERS: J. N. Thurston, President; M. S. Steadman, Vice-President;
Mrs. R. R. Owens, Secretary

COMMITTEE ON COMMITTEES: The above officers plus J. D. Antrim, V. S. Hodges,
A. F. Newton, Eugene Park, J. L. Richardson, T. L. Senn.

ADMISSIONS AND SCHOLARSHIP COMMITTEE: R. C. Harshman, Chairman; Miss Harriet
Holman, L. D. Huff, A. K. Jensen, J. H. Marvin, R. F. Nowack,
J. K. Reed, R. T. Reep, H. G. Spencer.
Non-Senate member: Mrs. E. Bartmess.

POLICIES COMMITTEE: J. G. Dinwiddie, Chairman; D. W. Bradbury, W. C. Godley,
A. T. Hind, S. M. Lukaweki, D. W. Lyons, M. G. Miller,
R. F. Mixon, J. V. Reel, J. B. Whitney.

WELFARE COMMITTEE: J. M. Wannamaker, Chairman; F. C. Alley, H. Brantley, W. C.
Capel, S. F. Hulbert, J. E. Pinckney, H. E. Vogel, J. R.
Warner, J. P. Winter.
Non-Senate member: R. Calhoun (Engl)

NOTES FROM THE UNIVERSITY LIBRARY COMMITTEE

Dr. J. W. Kenelly (Math) was elected chairman of the University Library Committee at its September meeting.

It should be noted that a new policy, recommended by the Committee and approved by the Administration, has gone into effect this semester regarding privileged borrowers. It is stated as follows:

"Staff and faculty borrowers are granted the privilege of indefinite loan. Indefinite loan is for the purpose of the personal research of the person to whom the indefinite loan privilege is extended. Once a year, preferably in April, staff and faculty borrowers will return all library books in their possession. Rules 3b and 3e on lost and damaged books apply to staff and faculty as well as to students. The librarian will advise staff and faculty members when they are remiss. Delinquencies that are unresolved will be reported to respective department heads or superiors for further action."

PERSONAL MENTION

--J. T. Gillingham (Ag. Chem. Services) has published an article entitled "Determination of Carotene in Fresh Forages and Silages Following Freezing and Grinding" in Journal Association of Analytical Chemists 50: 828-830, 1967.

--H. E. Hammar and N. R. Page (Ag. Chem. Services) have published a paper entitled "Micronutrient Analysis of Fertilizers with Special Reference to Frits" in Atomic Absorption Newsletter 6: 33-34, 1967.

--V. A. Boyd (AgEc) conducted a seminar on low income families in South Carolina at Presbyterian College, September 18, 1967.

--Dr. Virginia S. Hardie (Counseling) was the speaker and consultant for two area conferences on Youth Growing Up in Today's World sponsored by The South Carolina Department of Education, The Family Life Division, State Department of Home Economics Education, The Parent-Teacher Association of the State and industry at Florence, South Carolina on September 26 and at Greenville, South Carolina on October 5. The conference was financed by a grant from The Sears Roebuck Foundation.

--Lowery H. Davis (AgEd) presented a paper, "Providing Major Field Content Education in Vocational Education" at the National Vocational Technical Teacher Education Seminar, Chicago, Illinois, September 27, 1967.

--Dean Harlan E. McClure (Arch) participated in the following:

1. represented the National Architectural Accrediting Board at the Fall Meeting of the National Commission on Accrediting, Washington, D. C., September 21 and 22;
2. addressed the Charlotte, North Carolina, Council of Architects, October 4. Subject: "A Revolution in Architectural Education."



CLEMSON NEWSLETTER

INFORMATION FOR THE STAFF OF CLEMSON UNIVERSITY

Vol. 7 No. 6

November 1, 1967

CALENDAR: November 1 - November 15, 1967

Nov. 1	W	"B" Squad Soccer, Emory-at-Oxford at Clemson, 3 p.m.
Nov. 1	W	Fine Arts Film Club - TRIUMPH OF THE WILL & NIGHT AND FOG - 8 p.m., Civil Engineering Auditorium
Nov. 1	W	Emergency Self-Help Program - 7:30-8:30 p.m., Olin Hall Aud.
Nov. 2	Th	Woman's Club, Clemson House, 8 p.m.
Nov. 2	Th	Graduate Wives Club, 8 p.m., YMCA. Program will be on home safety.
Nov. 2	Th	"B" Squad Soccer, Brevard at Clemson, 3 p.m.
Nov. 2-4	Th-Sat	The Southeastern Section of the American Physical Society's Annual Meeting with the Department of Physics as host.
Nov. 3	F	Mathematics Colloquium, 4 p.m., Room M-101. Professor Dr. Gothfried Kothe, Mathematische Seminar, University of Frankfurt, "Lifting Properties of Locally Convex Spaces".
Nov. 4	F	Mathematics Colloquium, 11 a.m., Room M-101. Professor Dr. G. Kothe, Mathematische Seminar, University of Frankfurt, "On a theorem of Sobczyk".
Nov. 4	Sat	Foreign Language Examinations
Nov. 4	Sat	Football - North Carolina at Chapel Hill, 1:30 p.m.
Nov. 4	Sat	"B" Squad Soccer, Warren Wilson Junior Varsity at Clemson, 1 p.m.
Nov. 4	Sat	Soccer - Warren Wilson at Clemson, 3 p.m.
Nov. 6	M	Graduate Seminar, Agronomy 825, 4 p.m., Room A-205 P&AS. Ronald D. Oliphant - The effect of ploidy level on seed-set in inter- and intraspecific crosses.
Nov. 7	T	Election Day
Nov. 7	T	Sage Club Dinner Meeting, 6:30 p.m., Clemson House. Mr. T. W. Morgan, Associate Director of Extension Service Emeritus, will give an illustrated talk on his recent tour of Russia and other European countries.
Nov. 7	T	Clemson University Religion Series - Dr. Robert H. Ayers, University of Georgia, will speak on the topic: "The Death of God and Pragmatism in Education", 8 p.m., Brackett Hall Auditorium.
Nov. 8	W	Emergency Self-Help Program - 7:30-8:30 p.m., Olin Hall Aud.

Nov. 8	W	Special Seminar in Water Resources Research - 4 p.m., Lowery Hall Auditorium (CE Building). Mr. E. D. Eaton, Associate Director, Office of Water Resources Research, United States Department of The Interior, Washington, D. C., will present a talk on "Future Water Resources Research Directions".
Nov. 9	Th	Sigma Xi Program - Dr. J. D. Antrim - Highway Research in Civil Engineering - Noon, Clemson House.
Nov. 9	Th	A joint review of Army-Air Force, Bowman Field, 4 p.m.
Nov. 9	Th	Miss Clemson election
Nov. 10	F	Last day to withdraw without having grades recorded
Nov. 10	F	CDA Homecoming Dance - Dining Room
Nov. 10	F	Alumni National Council and Foundation Trustees Meetings - 10:30 a.m. and 2:30 p.m., Clemson House.
Nov. 10	F	Last day to drop a subject
Nov. 10	F	TIGERAMA - Stadium
Nov. 11	Sat	Soccer - N. C. State at Raleigh, 3 p.m.
Nov. 11	Sat	Poultry Club Bar-b-que
Nov. 11	Sat	Football - Maryland at Clemson, 2 p.m. (Homecoming)
Nov. 13	M	Foreign Language Film - AREN'T WE WONDERFUL (German) Based on the novel by Hugo Hartung. Best Film and Best Actor Award, Berlin Film Festival. Gold Medal, Moscow Film Festival. 7 & 9 p.m., Civil Engineering Auditorium.
Nov. 13	M	Graduate Seminar, Agronomy 825, 4 p.m., Room A-205 P&AS. Harvey Jurecek - Properties of soils derived from sericitic schist and Carolina slate.
Nov. 14	T	Faculty Senate, 4:15 p.m., Olin Hall Auditorium
Nov. 14	T	Soccer Game - Emory at Emory, 2 p.m.
Nov. 15	W	Fine Arts Film Club - BICYCLE THIEF - 8 p.m., CE Auditorium
Nov. 15	W	Emergency Self-Help Program, 3:30 p.m., CE Auditorium.
Nov. 16	Th	Concert - I Solisti de Zabreb -- Chamber Music, 8 p.m., Field House
Nov. 16	Th	Dr. Clair J. Collins, Oak Ridge National Laboratory, will lecture on "Isotopic Studies on Carbonium Ions. The Mechanism of the Hydride Shift" in Room 131, Brackett Hall, 4 p.m.
Nov. 17	F	Soccer Game - Oglethorpe at Oglethorpe, 3 p.m.
Nov. 18	Sat	Football - N. C. State at Clemson, 2 p.m. (HIGH SCHOOL VISITATION DAY)

DATES OF NATIONALLY ADMINISTERED EXAMINATIONS (1)

1967-1968

Test	Test Dates	Last Day to Register Without Penalty	Registration Closing Dates	Date Scores Released to Colleges
CEEB	*Dec. 2, 1967 *Jan. 13, 1968 *Mar. 2, 1968 *May 4, 1968 *July 13, 1968	Oct. 28, 1967 (\$2.50) Dec. 9, 1967 Feb. 3, 1968 Apr. 6, 1968 June 15, 1968	Nov. 11, 1967 Dec. 23, 1967 Feb. 17, 1968 Apr. 20, 1968 June 29, 1968	January 2, 1968 Feb. 7, 1968 Mar. 27, 1968 May 29, 1968 Aug. 7, 1968
Inst. GRE	**Oct. 24, 1967			
GRE	Oct. 28, 1967 **Dec. 9, 1967 **Jan. 20, 1968 Feb. 24, 1968 **Apr. 27, 1968 **July 13, 1968	Oct. 10, 1967 (\$3.00) Nov. 14, 1967 Dec. 26, 1967 Jan. 30, 1968 Apr. 2, 1968 June 18, 1968	Oct. 13, 1967 Nov. 21, 1967 Jan. 2, 1968 Feb. 6, 1968 Apr. 9, 1968 June 25, 1968	
Business	**Nov. 4, 1967 Feb. 3, 1968 Apr. 6, 1968 July 13, 1968 Aug. 10, 1968		Oct. 21, 1967 Jan. 20, 1968 Mar. 23, 1968 June 29, 1968 Aug. 3, 1968	
Pre-Vet	**Feb. 17, 1968			
Arch. Apt.	**Oct. 21, 1967 **Jan. 6, 1968 **Mar. 30, 1968		Sept. 30, 1967 Dec. 16, 1967 Mar. 9, 1968	

(1) Prepared by the Office of Admissions and Registration

* Given at Daniel High School.

** Given at Clemson University.

SCHEDULE OF THE ANNUAL MEETING,
SOUTHEASTERN SECTION, AMERICAN PHYSICAL SOCIETY,
TO BE HELD AT CLEMSON UNIVERSITY

THURSDAY, NOVEMBER 2

All Day	Registration	Physics Building
10:00 AM	Session AA	Theory; Physics I
10:00 AM	Session AB	Teaching of Physics; Physics 101
10:00 AM	Session AC	Solid State I; Physics 201
10:00 AM	Session AD	Nuclear Physics; Physics 301
12:00 PM	Buffet Luncheon	Clemson House Hotel, Saber Room
2:00 PM	Session BB	Spectra and Optics; Physics 201
2:00 PM	Session BA	High Energy; Physics I
2:00 PM	Session BC	Structure of Solids; Physics 201
2:00 PM	Session BD	Nuclear Reactions; Physics 301
5:15 PM	Session CA	Business Meeting, Physics 101
8:30 PM	Session DA	Chemistry I

FRIDAY, NOVEMBER 3

All Day	Registration	Physics Building
9:00 AM	Session EA	Theory of Particles; Physics I
9:00 AM	Session EB	Molecules, Fluids; Physics 101
9:00 AM	Session EC	Solid State II; Physics 201
9:00 AM	Session ED	Atomic and Radiation; Physics 301
12:00 PM	Buffet Luncheon	Clemson House Hotel, Saber Room
1:45 PM	Session FA	Plasma; Physics I
1:45 PM	Session FB	ESR; Physics 101
1:45 PM	Session FC	Solid State; Physics 201
1:45 PM	Session FD	Nuclear Spectroscopy; Physics 301
3:00 PM	Session FE	Teaching; Chemistry I
5:45-7:00 PM	Session GA	Social Hour, Clemson House

(Continued next page)

FRIDAY, NOVEMBER 3 (Continued)

7:30 PM	Session HA	Banquet; Ballroom, Clemson House Invocation: Pollard Welcome: Brownley Address: Slack
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SATURDAY, NOVEMBER 4

8:30 AM	Session IA	Astronomy; Physics I
8:30 AM	Session IB	Spectroscopy; Physics 101
8:30 AM	Session IC	Solids; Physics 201
8:30 AM	Session ID	Nuclear Physics; Physics 301
12:00 PM	Buffet Luncheon	Clemson House Hotel, Saber Room

SIGMA XI PROGRAMS

1967-1968

September 14	<u>Dr. F. I. Brownley:</u> Research Administration on the Clemson Campus - Noon, Clemson House.
October 12	<u>Dr. L. O. Drew:</u> Report on the National Sigma Xi Meeting - Noon, Clemson House.
November 9	<u>Dr. J. D. Antrim:</u> Highway Research in Civil Engineering - Noon, Clemson House.
January 11	<u>Dr. H. H. Macaulay:</u> Research in Economics of Water Conservation - Noon, Clemson House
February 8	<u>Dr. J. E. Halpin:</u> Summer Research Program for Young Scientists - Noon, Clemson House
February 27	<u>National Lecturer;</u> Dr. N. E. Miller: Learning and Moti- vating - Civil Engineering Auditorium
April 12	<u>Initiation and Banquet:</u> Mr. J. K. Cauthen, Chairman State Commission on Higher Education, speaker; Clemson House

MINUTES OF THE FACULTY SENATE

September 26, 1967

The second meeting of the Faculty Senate during the 1967-68 session was held on September 26, 1967, in Olin Auditorium, beginning at 4:18 p.m. Dr. James N. Thurston, President, presided.

After the minutes of the August meeting were approved as circulated, two new members of the Senate were introduced. They were H. Brantley (College of Education) and S. F. Hulbert (College of Engineering) who were elected to complete the unexpired terms of, respectively, H. H. McGarity and R. A. Bannister. Business during the remainder of the meeting consisted of reports, first, by President Thurston on conferences with Dean Victor Hurst and, second, by Committee Chairmen on their groups' work.

President Thurston reported that (1) the Faculty Senate's proposal to make its immediate past president a member of the Honorary Degree Committee has been approved, (2) the policy on work load will be written by Dean Hurst, sent to the Faculty Senate for review, and incorporated in the Faculty Manual, (3) the possibility of creating a Division of Freshman Studies is now being considered by the Committee on Undergraduate Teaching which will cooperate with the Faculty Senate's Admissions and Scholarship Committee in its study of the same proposal, (4) no action had been taken concerning attendance regulations, (5) the twelve-month salary option was elected by fewer faculty (40) than had been expected (about 150), (6) the Committee on Undergraduate Teaching has considered the evaluation of teachers by students and has recommended that reports be tabulated and given only to the instructor concerned, (7) the President of the Faculty Senate and several members -- who President Thurston thought should represent the areas of English and Modern Languages, Science and Engineering, and Social Sciences -- have been asked by Dean Hurst to go down with him to the Sumter branch in October, (8) Dean Hurst emphasized the need for seven-day notice for out-of-state travel, (9) Dean Hurst also pointed out the October 7th deadline for Honorary Degree nominations, and (10) information on "flu shots" would be available shortly. Following the President's report, a question was raised by W. C. Capel concerning announcement of faculty salaries.

The Chairman of the Admissions and Scholarship Committee, R. C. Harshman, reported that the possibility of eliminating Saturday classes and the question of changing student attendance regulations are being considered by subcommittees, but that nothing had yet been done concerning either the validation of candidates for graduation (when special problems have arisen) or the creation of a Division of Freshman Studies.

The Chairman of the Policies Committee, H. G. Dinwiddie, reviewed the items discussed at its meeting on September 19, 1967.

Among the items were (1) the size and rate of growth of the Faculty Senate, (2) the possibility of merging the Academic Faculty Senate and the Research Faculty Council, (3) the proposal that the past president of the Faculty Senate serve on the Honorary Degree Committee, (4) the question of faculty involvement in the selection of academic administrators, and (5) the participation of faculty in long-range planning. Action on the third item was delayed until details were reviewed of last year's recommendation and Senate action. The first and second items were referred to one subcommittee and the fourth item to another. Also, concerning the fourth item, the Policies Committee agreed on the desirability of establishing an orderly procedure which would permit faculty participation in the selection of academic administrators. Before drafting such a recommendation, however, the committee decided to ask for the Faculty Senate's endorsement of the idea. Their request was presented in the form of a motion by the Chairman and was accepted, after some discussion, through a show of hands.

The meeting was adjourned at 4:50 p.m.

Respectfully submitted,

Rameth Owens (Mrs. Walton H., Jr.)
Secretary

Absent: F. C. Alley, D. W. Bradbury, E. B. Eskew, V. S. Hodges, A. F. Newton, M. S. Steadman.

PUBLISHING OF COMMITTEE MINUTES

The Research Faculty Council has requested that the Newsletter publish the minutes of the university standing committees - Admissions, Curricula, Ethics and Religion, Faculty Basic Research, Honors and Awards, Fine Arts Series, Library, Schedule, and Social Affairs.

To effect this, it is requested that the chairmen of the respective committees forward the minutes of their meetings to the Dean of the University. These should be made available as soon as possible after the meetings have been held.

RELIGION LECTURES

Three professors of Religion in nearby state schools and an internationally known theologian will be the remaining speakers in the 1967-1968 Clemson University Religion Series. On Tuesday, November 7, Dr. Robert H. Ayers of the University of Georgia will speak on the topic: "The Death of God and Pragmatism in Education". On Wednesday, January 10, Dr. Nolan P. Jacobson of Winthrop College will speak on the topic: "Buddhism and the Spirit of Modernism". On Tuesday, February 13, Dr. Elton Trueblood of Earlham College, Richmond, Indiana, will speak on the topic: "Religion and the Educated Man". The concluding lecture will be on March 5, and will be given by Dr. Lauren Brubaker of the University of South Carolina, who will speak on the subject "The Theology of Samuel Becket". All lectures will be held in the auditorium of the Chemistry Building and will begin at 8:00 P.M. They are sponsored jointly by the Department of Social Sciences and the YMCA.

Dr. Ayers holds the Ph.D. from Vanderbilt University, and the B.D. from Yale University. From 1959 to 1964 he was head of the Department of Philosophy and Religion of the University of Georgia. He has published in the field of the Philosophy of Religion, and held a number of offices in scholarly organizations.

Dr. Jacobson also holds the B.D. (Emory) and Ph.D. (Chicago) degrees, and has served as Chairman of the Department of Philosophy and Religion at Winthrop since 1954. He has published primarily in the field of World Religions, his most recent book being Buddhism: The Religion of Analysis (New York: Humanities Press, 1966). He also serves as the director of the Asian Area Studies Program at Winthrop and was active in organizing a society for Asian Studies in South Carolina. In 1961-1962 he spent a year of study in Rangoon at the International Institute for Advanced Buddhistic Studies. His most recent article appeared in the Hibbert Journal, Spring 1967, and is entitled "The Cultural Meaning of Science".

Dr. Trueblood is a prominent Quaker theologian and author. His earned degrees are from Haverford, Harvard and Johns Hopkins (Ph.D.), and he has been awarded nine honorary doctorates. He has taught in Garrett, Haverford, and Stanford, and is presently Professor-at-Large at Earlham College. His more than twenty-four books include a general philosophy textbook, a text in the Philosophy of Religion, The Humor of Christ, The Logic of Belief, The Incendiary Fellowship, and The Idea of College.

Dr. Brubaker has served as Professor of Religion and Chaplain at the University of South Carolina for the last seventeen years. He holds the Th.D. degree from Columbia University and Union Seminary, completing his major work with both Niebuhr and Tillich. His fields of specialty are Christianity and Culture and Biblical Literature.

SECOND GENERAL ENROLLMENT PERIOD FOR MEDICARE

Many citizens enrolled prior to June 1, 1966, in one or both of the insurance programs offered under MEDICARE. Those who did not enroll on time will be provided another opportunity to enroll during the last three months of each odd-numbered year. The current enrollment period will continue by special order through March 31, 1968. If any Clemson employee knows someone over 65 who has missed this medical assistance program, please share the following information with that person and encourage him or her to file an application, as soon as possible. Anyone over 65 who is still working is eligible for MEDICARE, regardless of the amount earned.

A person who reached age 65 before August 1 and has never enrolled for MEDICARE, or a person who reached 65 before August 1 and enrolled on time for basic "Hospital Insurance", but did not enroll for the supplemental "Medical Insurance" (\$3 per mo.), may now enroll in any Social Security office for basic or for full protection. The second general enrollment period opened on October 1 and will close on Sunday, March 31. For those who are enrolling late, coverage will not begin until July 1, 1968, and those who elect the supplemental Medical Insurance must pay a penalty of 10%.

Any application for MEDICARE must be considered late if not filed "on or before the last day of the third calendar month after the month in which the applicant reaches 65." For example, a person whose sixty-fifth birthday occurred in July and who has not completed enrollment for MEDICARE is already late. On the contrary, anyone whose sixty-fifth birthday occurred in August (1967) will not be considered late if he completes and files an application in a Social Security office by November 30, and if he elects "Medical Insurance" he will qualify for this coverage without paying the 10% penalty. (No premium is now being charged anyone over 65 for the basic "Hospital Insurance" under MEDICARE.)

Citizens who become 65 before January 1 (1968) are eligible for MEDICARE without ever having worked under Social Security. However, those who become 65 in the calendar year 1968, or later, will be required to have credit for some quarters of coverage under Social Security to be eligible for basic Hospital Insurance. Check with your Social Security office on the number required. (A "quarter of coverage" is a period of three months beginning with January, April, July, or October in which an employee is paid \$50 or more.)

The University Personnel Office in Tillman Hall (Ext. 365) will assist any former Clemson employee to verify the dates of his or her employment. The nearest Social Security Office is located in Anderson, South Carolina, at 114 West Greenville Street. Applications should be filed there, in person, if possible.

MEETING OF INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS

The state meeting of the South Carolina Section of the Institute of Electrical and Electronics Engineers will be held at the Clemson House, November 17, 1967. Mr. Walter K. MacAdam, president of IEEE, will be the banquet speaker. Mr. MacAdam is also vice president of American Telephone and Telegraph Corporation.

SEMINAR ON "FLAME SPRAYING" SYSTEMS

This seminar is sponsored by the Department of Industrial Engineering. Technical sessions will be held in the Industrial Engineering Building. The registration desk will be open from 8-9 a.m. Friday, November 10, in the lobby of the I.E. Building.

EDITOR JOINS DEVELOPMENT STAFF

Allen M. Sale, Jr., has joined the Office of Public Relations, filling the position of Publications Editor. Since 1965 Mr. Sale has served as a technical writer for Ling Temco Vought Aerospace Corp. at the John F. Kennedy Space Center in Florida. A native of Harlan, Ky., Mr. Sale received a bachelor's degree in English from Clemson University in 1964, and did graduate work at the University of Tennessee. He is married to the former Alice Jane Hazlewood of Cocoa, Fla. They live at 118 College Heights Boulevard.

ALUMNI BOARDS MEET HOMECOMING WEEKEND

Members of the Clemson Alumni Association National Council and trustees of the Clemson University Foundation will be at Clemson for their annual fall meetings Friday, November 10. The National Council, Alumni President Tommy Thornhill '48 of Charleston presiding, will meet at 10:30 a.m. at the Clemson House. Following a joint luncheon for the two groups and their wives at 1:00 p.m., the Clemson Foundation will convene at 2:30 p.m. Foundation President Pat Calhoun '32 of Charlotte will preside. President Thornhill will crown Clemson's Homecoming Queen at halftime of the Clemson-Maryland football game Saturday afternoon, November 11.

TWENTY-ONE INSTITUTIONS IN NORTH AND SOUTH CAROLINA BEGIN CLASSES IN AUGUST

According to an August 1967 survey by the National Association of College Stores, Inc., the following institutions in North and South Carolina are on a two semester calendar beginning in August:

North Carolina

Belmont Abbey	8/24
Brevard	8/31
Chowan	8/31
Gardner-Webb	8/26
Louisburg	8/27
Mars Hill	8/31
Pheiffer	8/31
Sacred Heart	8/28
St. Andrews	8/30
Warren Wilson	8/27
Wingate	8/28

South Carolina

Anderson	8/22
Central Wesleyan	8/28
Claflin	8/28
Clemson	8/23
Limestone	8/25
North Greenville	8/19
Presbyterian	8/25
South Carolina State	8/28
Spartanburg Junior	8/24
Winthrop	8/28

The date shown is the date of the first class meeting.

LECTURESHIPS AVAILABLE

The September Bulletin on the U. S. Government educational exchange program lists approximately 50 lectureships that are still available for 1968-1969 at institutions of higher learning in Europe, Asia, Africa, the Middle East, and Latin America. Also listed are 43 senior foreign Fulbright scholars in the United States who are available for occasional lectures and 25 senior Fulbright scholars from the Republic of China, India, Iran, Japan, Nepal, Korea and Turkey who may be invited to give occasional lectures on non-Western cultures. The Bulletin can be consulted at the office of the Faculty Fulbright Adviser, F. I. Brownley, Jr., Graduate School. He also has some information for faculty members on advanced research fellowships available for 1968-1969 under the exchange programs sponsored by the North Atlantic Treaty Organization and the Southeast Asia Treaty Organization.

PERSONAL MENTION

--Robert D. Hatcher, Jr., (Geol) presented a paper entitled, "Structural Relations Along the Dumplin Valley Fault System in East Tennessee", at the Gatlinburg meeting of the American Institute of Mining, Metallurgical and Petroleum Engineers, October 7, 1967.

--H. F. Landrith (Educ) has published an article "Private Dormitories Profit Colleges, Investors," in American School and University, September, 1967.

--H. F. Landrith (Educ) was re-elected chairman of the Committee of Deans of Education in State Supported Colleges at the Fall meeting on October 11 at Clemson with Clemson's School of Education acting as host.

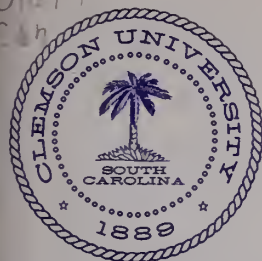
--W. C. Capel (Sociology) has published "Continuities and Discontinuities in Attitudes of the Same Persons Measured Through Time," in the Journal of Social Psychology Vol. 73, pp 125-136, 1967.

--C. V. Aucoin (Math) presented two colloquium lectures at the University of South Carolina, the School of Business Administration on Tuesday, October 10. His topics were "An Application of Markov Processes" and "The Role of the Poisson Process in Model Making".

--L. O. Drew (AgE) attended the National Convention of the Society of Sigma Xi at Portsmouth, New Hampshire on September 25-27, 1967 as the delegate from the Clemson Chapter.

--J. E. Squyres (InEd) was the guest speaker for the annual dinner meeting of the South Carolina Cosmetology Institute held in Columbia on September 24.

--H. E. Morgan (InEd) was a participant in the 1967 NDEA Institute for Advanced Study in Industrial Arts held in Atlanta, Georgia, October 2 through 6, 1967 for leaders in Industrial Arts from ten Southeastern states and directed by the American Industrial Arts Association.



CLEMSON NEWSLETTER

INFORMATION FOR THE STAFF OF CLEMSON UNIVERSITY

Vol. 7 No. 7

November 15, 1967

CALENDAR: November 15 - November 30, 1967

Nov. 15	W	Fine Arts Film Club - BICYCLE THIEF - 8 p.m., CE Aud.
Nov. 15	W	Emergency Self-Help Program, 7:30 p.m., Olin Hall Aud.
Nov. 16	Th	Concert - I Solisti de Zabreb -- Chamber Music, 8 p.m., Field House
Nov. 16	Th	Dr. Clair J. Collins, Oak Ridge National Laboratory, will lecture on "Isotopic Studies on Carbonium Ions, The Mechanism of the Hydride Shift" in Room 131, Brackett Hall, 4 p.m.
Nov. 17	F	The State meeting of the South Carolina section of the Institute of Electrical and Electronics Engineers will be held at the Clemson House at 7 p.m. Mr. Walter K. MacAdam, President of IEEE and also Vice-President of American Telephone and Telegraph Corporation, will be the banquet speaker.
Nov. 17	F	Soccer Game - Oglethorpe at Oglethorpe, 3 p.m.
Nov. 18	Sat	Football - N. C. State at Clemson, 2 p.m. (HIGH SCHOOL VISITATION DAY)
Nov. 19	Sun	Last day Ph.D. candidates to present dissertation
Nov. 20	M	Lecture, 11 a.m., A-203 P&AS. George A. Slaphey, Area Representative, Division of Agricultural Development, Tennessee Valley Authority, "Multinutrient Fluid Fertilizers".
Nov. 20	M	Foreign Language Film - THE MOMENT OF TRUTH (Spanish) Color 7 and 9:30 p.m., Civil Engineering Auditorium
Nov. 20	M	Graduate Seminar - Agronomy 825, 4 p.m., Room A-203 P&AS. Robert W. Hardaway - A comparison of some of the organic inorganic arsenicals: Their toxicity to mammals, value as herbicides, and fate in the soil.
Nov. 21	T	Soccer Game - Furman at Clemson, 3 p.m.
Nov. 21	T	Faculty Research Council, 4 p.m., Conference Room of 28 Tillman
Nov. 22	W	Emergency Self-Help Program, 7:30 p.m., Olin Hall Aud.
Nov. 22-25	W-Sat	Thanksgiving holidays begin after last class
Nov. 25	Sat	Clemson-Carolina game in Columbia at 2 p.m.

Nov. 27	M	Graduate Seminar - Agronomy 825, 4 p.m., Room A-203 P&AS. James H. Palmer - Triticale - a wheat x rye cross.
Nov. 28	T	The Clemson Chapter of the National Association of University Professors will sponsor a public lecture to be given at 7:30 p.m., Olin Hall Auditorium. The speaker will be Dr. Charles M. Larsen, Professor of Mathematics at San Jose State College and a staff associate of the National Office of the AAUP. His topic will be "Faculty Participation in the Governance of the University".
Nov. 29	W	Max Steele, a South Carolina native and author of the prize winning novel <u>Goblins Must Go Barefoot</u> , will read from his fiction at 4 p.m., 101 Physics Auditorium, sponsored by the English Department.
Nov. 29	W	Emergency Self-Help Program, 7:30 p.m., Olin Hall Auditorium
Nov. 30	Th	Cross Country NCAA meet
Dec. 4	M	Concert - Byron Janis - 8 p.m., Field House
Dec. 4	M	Graduate Seminar - Agronomy 825, 4 p.m., Room A-203 P&AS. Charles R. Lee - Growth of flax and soybeans in a high zinc medium.
Dec. 5	T	Faculty Senate, 4:15 p.m., Olin Hall Auditorium
Dec. 5	T	Sage Club Dinner Meeting, 6:30 p.m., Clemson House
Dec. 6	W	Fine Arts Film Club - THE SEVENTH SEAL - 8 p.m., CE Aud.

NEWSLETTER DEADLINES

The Newsletter will be published on December 1 as usual. Material for this issue must be in the University Dean's Office by November 20. This issue will contain the complete calendar for December. The next issue will be published on January 1. Material for this issue must be in the University Dean's Office by December 2.

NECROLOGY

Wylie F. D. Hodge, 73, a member of the Clemson engineering faculty from 1927 until 1954, died Oct. 26 in Manning, S. C.

Minutes of the Research Faculty Council Meeting

October 17, 1967

The monthly meeting of the Research Faculty Council was called to order at 4:15 P.M. in Room No. 101 of the Physics Building by Chairman Fox.

The minutes of the September 19, 1967 meeting were approved as circulated.

Members absent were: U. S. Jones, H. H. Macaulay, M. J. B. Paynter, and J. J. Porter.

Out-of-state travel regulations were reviewed again and after a brief discussion concerning short notice meeting approvals, the consensus was to follow existing regulations until their mechanics warranted a change. The Policy Committee was commended for their efforts.

L. O. Drew and M. B. Bishop were requested to search for another meeting room for Council meetings due to removal of the parking areas behind Physics. Several possibilities were suggested.

Chairman Fox appointed an Ad Hoc Committee (consisting of W. P. Byrd, Chairman; W. P. Barlage, and L. O. Drew) to study pay scales for technicians assisting research faculty members.

Discussion was held concerning the establishment of a Faculty Club.

Discussion was held also concerning parking facilities and it was suggested that a representative of the Parking Committee be invited to the next Research Faculty Council meeting to report on long range plans regarding access roads, faculty parking areas, etc.

The meeting was adjourned at 5:00 P.M.

Respectfully submitted,

S. F. Hulbert
Secretary

SFH:sbw

REGIONAL CLEARINGHOUSE FOR FACULTY POSITIONS

The Regional Education Laboratory for the Carolinas and Virginia has established a Regional Clearinghouse for locating and recommending advanced graduate students interested in serving as National Teaching Fellows, or in other temporary teaching appointments before completing their doctoral degrees. The program is designed to assist the colleges and universities of North Carolina, South Carolina and Virginia in filling their unmet needs for qualified teaching personnel.

Information about the Clearinghouse may be obtained from the Graduate Office.

CLEMSON UNIVERSITY EXTENSION SPECIALISTS' ASSOCIATION MAKES GIFT TO THE LIBRARY OF CLEMSON AT SUMTER

The Clemson University Extension Specialists' Association has made a gift to the library of Clemson University at Sumter in memory of Dr. Robert Muldrow Cooper. The gift, in the form of a book, is a copy of the unabridged edition of the RANDOM HOUSE DICTIONARY OF THE ENGLISH LANGUAGE. The book has been turned over to Director Gourlay who will catalog the volume and then send it to the Sumter Library.

GIFTS AND GRANTS

--National Science Foundation to Dr. Nelson S. Bauld, Jr., (EM) \$14,910.00 to perform research entitled "Creep Deflection and Collapse of Thin Shells Under Uniform Pressure". This one-year research grant became effective October 1.

--Calumet Division, Calumet & Hecla, \$500 to Botany and Bacteriology for investigations of foliar fungicides on cucumbers.

--Columbia Nitrogen Corporation, \$9,000 to Animal Science for evaluation of corn silage, urea, and pelleted bermuda grass in cattle feeding systems.

--Southern Regional Educational Board, \$3,170 to Agricultural Economics and Rural Sociology for "State of Knowledge" studies.

--Diamond Alkali Company, \$500 to Botany and Bacteriology for testing of Daconil on roses and Termil on ornamentals.

PERSONAL MENTION

--J. D. Antrim (CE) and W. A. Welsh (CE) attended the American Society of Civil Engineers Student Chapter Advisory Personnel Conference in Atlanta, Georgia, on October 6. Thirty-five student chapter advisers from universities in the eastern half of the United States attended the all-day conference.

--J. P. Rostron (CE), R. E. Elling (CE), and W. A. Welsh (CE) attended the annual ASCE Conference in New York City, October 17-20.

--D. F. Bruley (ChE) presented an invited tutorial lecture on "Process Dynamics in Automatic Control" at the 22nd Annual International ISA Instrumentation Automation Conference in Chicago, Illinois, September 10.

--F. C. Alley (ChE) and G. F. Meenaghan (ChE) were in charge of a two-day Symposium for industrial people on Air and Water Pollution at Clemson, October 19-20.

--John F. Andrews (ESE) attended the Water Pollution Control Association Meeting in New York, October 8-11, and presided at one of the Research Symposia.

--S. F. Hulbert (CrE) presented a paper entitled: "Kinetics of Solid State Reactions in Basic Brick Systems", to the Refractories Division of the American Ceramic Society, Fall Meeting in Bedford, Pennsylvania, October 6.

--A. G. Law (EM) has been appointed as a member of the Ground Water Committee of the Irrigation and Drainage Division of the American Society of Civil Engineers.

--Everett Laitala (IE) spoke to the Atlanta Chapter of the American Society of Value Engineers on October 17, on the subject "The Engineering Method and Value Engineering".

--L. C. Wilcox (EE) was a participant in a week-long workshop on "Digital Computers in Research" sponsored by IBM and held in San Jose, California, October 1-8.

--J. N. Thurston (EE) represented Clemson at the inauguration of Chancellor M. B. Mitchell at the University of Denver on October 20.

--M. S. Steadman (Engl) and J. N. Thurston (EE) visited the Sumter campus for the Faculty Senate on October 17-18,

--Kenneth E. Carpenter (Arch) and Zigurts Kapelis (Arch) attended the 50th Anniversary Conference of the American Institute of Planners in Washington, D. C., October 1-6.

--Anders J. Kaufmann (Arch) represented the School of Architecture at the annual American Institute of Architects - sponsored Architect-Researcher's Conference in Gatlinburg, Tennessee, October 24-26.

--Harlan E. McClure (Arch) spoke to the Greenville Council of Architects on October 12, and to the Spartanburg Council of Architects on October 17, on the subject of education.

PERSONAL MENTION (Cont'd)

--The Board of Directors of the Clemson Architectural Foundation met in the School of Architecture on Saturday, October 28.

--Joel V. Brawley (Math) presented a lecture at Bob Jones University on Oct. 27, entitled "Algebraic Cryptography".

Members of the Chemistry Department presented the following papers at the Southeastern Regional Meeting of the American Chemical Society, held in Atlanta, November 1-3. F. Lindstrom and H. G. Spencer presided at sessions of the meeting.

--"Comparative Studies on the Synthesis and Utilization of Carbamyl Phosphate by Enzymes" by M. B. Bishop, C. B. Bishop and William Kneece.

--"Electrical and Surface Properties of Polymides" by J. V. Hartzog and H. G. Spencer.

--"Synthetic Approaches to the Furoquinoline Alkaloids" by J. H. Cecil and J. W. Huffman.

--"The Structure and Reactions of Reduced Abietic Acid" by J. W. Huffman, an invited paper.

--"Study of the Alkaline Earth Chelates of d-trans-1,2-Diaminocyclopentane Tetraacetic Acid" by B. T. Upchurch and F. Lindstrom.

--"A Method for Locating the Acidic Hydroxyl Group on O,O'-Dihydroxyazo Dye Metal Ion Indicators" by A. Edwards and F. Lindstrom.

--"The Synergistic Action of Glyoxal Bis(2-Hydroxyanil) and its Derivatives with Amines in Spectrophotometric Cadmium Methods" by B. C. Rudy and F. Lindstrom.

--"Aminoiminomethanesulfinic Acid as a Reagent for the Precipitation of Metals" by J. E. McGill and F. Lindstrom.

--"Infrared Spectral Studies of the Coordination Compounds of dl-p,p'-Diamino-2,3-diphenylbutane with Selected Univalent Metal Ions" by G. T. Cochran, N. P. Marullo and J. F. Allen.

--"The Reduction of Ketones by Alkali Metals in Liquid Ammonia" by J. T. Charles and J. W. Huffman.

--"Pyrolysis of Imidates. A Mechanistic Study" by N. P. Marullo, E. McNew and E. P. Hall.

--"A Linear Free Energy Relationship for the Rotational Barrier About the N-N Bond of Triazenes" by N. P. Marullo, C. B. Mayfield and E. H. Wagener.

--"The Base-Catalyzed Isomerization of 2-Substituted Norbornenes and Norbornanes" by J. G. Dinwiddie, Jr., and J. R. Stout.

--"The Reaction of Unsaturated Alcohols with Iron Carbonyls" by W. T. Hendrix, F. G. Cowherd and J. L. von Rosenberg.

--"Some Isoquinuclidone Rearrangements" by T. R. Nasser and J. W. Huffman.

PERSONAL MENTION (Cont'd)

Members of the Chemistry Department presented the following papers at the Southeastern Section of the American Physical Society, held in Clemson, Nov. 2-4:

--"Thermogravitational Thermal Diffusion. Thermal Diffusion Factors for the System Carbon Tetrachloride-Ethyl Alcohol" by A. Beyerlein and R. J. Bearman.

--"Far Infrared Spectra and Barriers to Internal Rotation of Five Halogenated Ethanes" by F. B. Brown.

The recent meeting of the Southeastern Section of the American Physical Society, hosted by the Department of Physics, had a registered attendance of more than 450 physicists. The Clemson Physics Department presented 20 research papers at this meeting. Two of these papers were given at the invitation of the Section. They were:

--"Radiation Damage in Metals" by Robert L. Chaplin, Jr.

--"Some Experiments with Metal Whiskers" by E. P. Stillwell, Jr.

The remaining 18 were contributed papers. They are listed below.

--"Fluid Systems in General Relativity" by John R. Ray.

--"Electromagnetic Radiation Reaction in General Relativity" by Barry Illman and John Ging.

--"A New Engineering Physics Laboratory Course for Clemson" by D. P. Miller.

--"Growth and Properties of Indium-Tin Alloy Whiskers" by D. R. Overcash, E. P. Stillwell and M. J. Skove.

--"Temperature Dependence of the Electrical Resistivity of Zinc Whiskers" by W. V. McCanless and E. P. Stillwell.

--"The Crystal Structure of Telluracy-clohexane--3,5--dione" by G. L. Parks and D. P. Miller.

--"Resistance and Energy Gap of Germanium--Germanium Dioxide Layered Thin Films" by E. T. Hutcheson and H. E. Vogel.

--"Nonadditive Third Virial Coefficient for Intermolecular Potentials with Hard Sphere Cores" by R. H. Fowler and H. W. Graben.

--"The Foucault Pendulum" by L. D. Huff and A. R. Reed.

--"Dispersion in a Relativistic Plasma" by W. J. Chervenak.

--"Spin-Lattice Coefficients for Substitutional Gd^{3+} in CaF_2 .

--"Experiments Relating to the Sign of the Charge on Dislocations in Ionic Crystals" by C. G. Vaughan and M. G. Miller.

--"Third-Order Isothermal Elastic Constants of Iron" by B. E. Powell and M. J. Skove.

PERSONAL MENTION (Cont'd)

--"The Dependence of the I_B Annealing Substage upon Crystallographic Direction for Aluminum" by R. E. Longshore and R. L. Chaplin.

--"The Low Temperature Annealing Spectrum of Magnesium Following Electron Irradiation" by T. N. O'Neal and R. L. Chaplin.

--"Optical Orientation of V_K Centers in $KCl(Pb)$ " by T. P. Bishop and F. J. Keller.

--"The Temperature Dependence of the Surface Voltage of Silver Chloride" by C. R. Green and M. G. Miller.

--"The Ionic Conductivity of Silver Chloride Containing Sodium Chloride" by M. W. Riley and M. G. Miller.

--F. W. Thode (Hort) presented three lectures in the Landscape Design Series at the University of South Carolina on October 31.

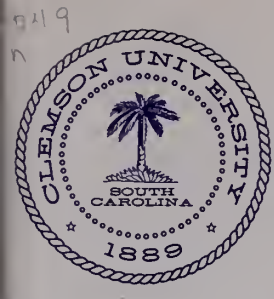
--Pryce B. Gibson (Agron) presented a paper entitled "Interspecific Hybridization of Trifolium occidentale D. Coombe" at the Washington, D. C. Meeting of the American Society of Agronomy, November 6.

James R. Woodruff (Agron) presented a paper entitled "Polyhydroxy and Polycarbonyl Compounds in Relation to Phosphorus and Cation Uptake by Flax", at the Washington, D. C. Meeting of the American Society of Agronomy, Nov. 9.

--Mr. Paul K. Gable, Jr., has been employed as Administrative Assistant of the S. C. Agricultural Experiment Station, to replace Mr. C. E. Woodall who has accepted a position in the Office of Business and Finance. Mr. Gable is a 1963 graduate of Clemson University and has been associated with the S. C. Crop Reporting Service in Columbia since graduation. He is married to the former Miss Jo Gambrell and they reside in Enchanted Hills, Seneca.

--J. E. Halpin (Associate Director, S. C. Agri Expt Stn) spoke at the evening session of the USDA Work Conference for Humid Pasture and Range Investigators on "Peanut Stunt Virus Studies in Clovers". The meeting was held November 2-4 in Beltsville, Maryland at the Plant Industry Station.

--O. B. Garrison, (Director, S.C. Agri Expt Stn) presented a talk on "Trends in Food Crop Production in the South" at the Georgia Canners Association meeting in Ponte Vedra Beach, Florida on November 4.



CLEMSON NEWSLETTER

INFORMATION FOR THE STAFF OF CLEMSON UNIVERSITY

Vol. 7 No. 8

December 1, 1967

CALENDAR: DECEMBER 1-JANUARY 15, 1968

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|---------|-----|--|
| Dec. 1 | F | Christmas Tree Lighting Ceremony, 7 p.m., in front of YMCA with President R. C. Edwards presiding. |
| Dec. 1 | F | Christmas Glee Club Concert, 8:15 p.m., Tillman Hall Auditorium |
| Dec. 3 | S | J. S. Bach's "Christmas Oratorio" presented by The Clemson University Chorale Society, 4 p.m., Clemson Baptist Church. |
| Dec. 4 | M | Educational Council Meeting, 9 a.m. |
| Dec. 4 | M | Graduate Seminar - Agronomy 825, 4 p.m., Room A-203 P&AS.
Charles R. Lee - Growth of flax and soybeans in a high zinc medium. |
| Dec. 4 | M | Concert - Byron Janis - 8 p.m., Field House. |
| Dec. 5 | T | Faculty Senate, 4:15 p.m., Olin Hall Auditorium. |
| Dec. 5 | T | Sage Club Dinner Meeting, 6:30 p.m., Clemson House. Miss Isadora Williams, retired Home Marketing Specialist of Agricultural Extension Service, University of Tennessee, 1931-54, and member of the Southern Highland Handicraft Guild from 1932 to the present, will speak as a representative of the Guild on "Handicrafts: a Social, Cultural and Economical Activity". There will be 3 exhibits - handicrafts from the Guild, needlework and crafts from producers and handiwork by Sage Club members. |
| Dec. 5 | T | December graduates turn in data cards and pick up gift at Alumni Office. |
| Dec. 6 | W | Fine Arts Film Club - THE SEVENTH SEAL - 8 p.m., CE Auditorium. |
| Dec. 6 | W | Emergency Self-Help Program, 7:30 p.m., Olin Hall Auditorium. |
| Dec. 6 | W | Reading Day. |
| Dec. 7 | Th | Examinations Begin. |
| Dec. 7 | Th | Graduate Wives Club, 8 p.m., YMCA. The program will feature decorating ideas for the holidays. |
| Dec. 7 | Th | Woman's Club, Clemson House. |
| Dec. 9 | Sat | Final day for December MS & PhD candidates to submit thesis or dissertation. |
| Dec. 15 | F | Faculty meeting to consider candidates for graduation |

Dec. 16	Sat	Commissioning Exercises, 11 a.m., Tillman Hall Auditorium.
Dec. 16	Sat	Graduation, 3 p.m., Tillman Hall Auditorium.
Dec. 19	T	Faculty Research Council, 4 p.m., Conference Room, 28 Tillman Hall.
Dec. 29-30	F-Sat	Poinsettia Classic in Greenville.
Jan. 3	W	Matriculation, New Students - Tillman Hall.
Jan. 4	Th	Woman's Club, Clemson House.
Jan 4	Th	Graduate Wives Club, 8 p.m., YMCA. The program features quick-cooking and interesting recipes for the student wife.
Jan. 4	Th	Basketball - Furman at Clemson.
Jan. 5-6	F-Sat	Registration, All Students.
Jan. 6	Sat	Late registration fee applies at noon.
Jan. 6	Sat	Basketball - South Carolina at Clemson.
Jan. 8	M	Classes begin, regular schedule.
Jan. 9	T	Basketball - Clemson at Duke.
Jan. 9	T	Sage Club Dinner Meeting, 6:30 p.m., Clemson House.
Jan. 10	W	Religion Lecture - Dr. Nolan P. Jacobson of Winthrop College will speak on the subject: "Buddhism and the Spirit of Modernism" 8 p.m., Brackett Hall Auditorium.
Jan. 11	Th	Sigma Xi Program, Clemson House at noon. Dr. H. H. Macaulay will speak on "Research in Economics of Water Conservation".
Jan. 11	Th	Basketball - Virginia at Clemson.
Jan. 12	F	Last day for matriculation..
Jan. 13	Sat	Basketball - North Carolina at Clemson.
Jan. 15	M	Basketball - Maryland at Clemson.
Jan. 16	T	Faculty Research Council, 4 p.m., Conference Room, 28 Tillman Hall.
Jan. 16-18	T,W,Th	Religious Emphasis Week.
Jan. 19	F	Last day to add a subject.
Jan. 23	T	Faculty Senate, 4:15 p.m., Olin Hall Auditorium.

NEXT ISSUE OF THE NEWSLETTER

The next issue of the Newsletter will be on Jan. 1. Deadline for copy will be Dec. 2 in the University Dean's office.

NOTES FROM THE OFFICE OF ADMISSIONS AND REGISTRATION

Since January 2, 1968 has been designated as a holiday, the second semester academic schedule is amended to read as follows:

Matriculation, new students	January 3
Registration, all students	January 5, 6
Late registration fee applies at noon	January 6
Classes begin, regular schedule	January 8

MAILING ADDRESS FOR THE CLEMSON UNIVERSITY DEPARTMENT OF NURSING AT ANDERSON

Any correspondence with the Clemson University Department of Nursing at Anderson should be sent to Clemson University Department of Nursing, 811 Woodrow Circle, Anderson, South Carolina 29621. Please do not put Anderson Memorial Hospital on any correspondence to the Department of Nursing.

SCSEA COOPERATIVE CREDIT UNION

Several Clemson University employees who are members, in good standing, of the S. C. State Employees' Association, have found it advantageous to arrange with the Association's Credit Union to finance the purchase of an automobile. Financing by the Credit Union requires a few days, therefore any member of the SCSEA who is interested should write or telephone Mrs. Helen Bigham, at the Credit Union office (256-2097) in Columbia, (1015 Sumter Street). The office is open from 1-5 p.m., Mondays through Fridays. Details will be mailed promptly by Mrs. Bigham.

POSTDOCTORAL RESEARCH

The National Research Council has announced that a number of appointments to postdoctoral research associateships are available for the 1968-1969 academic year. These awards have stipends beginning at \$10,927, are tenable at a number of locations in the United States, and some are open to non-citizens. The basic and applied natural sciences as well as the behavioral sciences are included in the areas supported.

Additional information is available in the Graduate Office.

CHRISTMAS TREE LIGHTING CEREMONY

The annual Christmas tree lighting ceremony, sponsored by Alpha Phi Omega and the Clemson sororities, will be held at 7 p.m., December 1 in front of the Clemson YMCA. President R. C. Edwards will light the Christmas tree and entertainment will be provided by the Clemson University Glee Club. At 8:15 p.m., the Glee Club will present their Christmas concert in Tillman Hall. The public is urged to attend.

CHRISTMAS CONCERT

The Clemson University Glee Clubs will present a concert of Christmas Music on Friday, December 1, 8:15 p.m. in Tillman Auditorium.

Of particular significance will be the presentation of "A Ceremony of Carols" by the English Composer, Benjamin Britten. This work will be presented by the University Women's Glee Club.

The "Gloria" from the Missa Mater Patris by Josquin Des Prez, the familiar "Adoramus Te" by Palestrina, along with "Tannenbaum" and "Carol, Brothers Carol" will be presented by the Men's Glee Club.

"Oh Po' Little Jesus", "Rockin All Night" and "The Virgin Mary Had a Baby Boy" will be presented by the Men's Octet.

An unusually stirring arrangement of "O Holy Night" for (eight parts) choir will be presented by the combined Men and Women's Glee Clubs as the climax of the concert.

The public is cordially invited.

THE CLEMSON UNIVERSITY CHORALE SOCIETY TO PRESENT J.S. BACH'S "CHRISTMAS ORATORIO"

The Clemson University Chorale Society will present Parts I, II, III of the "Christmas Oratorio" by J. S. Bach. Sunday, December 3 at 4 p.m. in the Clemson Baptist Church.

This composition for chorus, soli, and orchestra was composed in 1734 when Bach was forty-nine years of age.

Soloists for this performance include:

Mrs. Revis Frye, Mezzo-Soprano
Mrs. Barbara Georgian, Mezzo-Soprano
Mrs. Robert Hill, Soprano
Mr. Robert Hill, Tenor
Mr. Leonard Brank, Bass

Instrumentalist include:

Mrs. Linda Barlage, Harpsichord
Mrs. Edith Card, Organ
Mr. Robert Jamison, Cello

Conductor for this performance is Mr. Joseph Jackson.

MINUTES OF THE FACULTY SENATE

October 24, 1967

The third meeting of the Faculty Senate during the 1967-68 session was held on October 24, 1967, in Olin Hall Auditorium, beginning at 4:17 P.M. Dr. James N. Thurston, President, presided.

When the minutes of the September meeting were considered, one correction and one addition were made concerning the summary of President Thurston's report. In item nine the deadline for Honorary Degree nominations should have read "October 1st" instead of October 7th as erroneously recorded by the secretary. And to item five which states that "the twelve-month salary option was elected by fewer faculty (40) than had been expected (about 150)," this explanatory clause was added: 'possibly because the plan was not as the faculty had hoped.' Otherwise, the minutes were accepted as circulated.

The major items of business during the meeting were reports by President Thurston and by Committee Chairmen.

President Thurston reported that (1) he and M. S. Steadman visited the Sumter branch of Clemson University on October 17th and 18th, found the facilities fine indeed (with some superior to Clemson's), and felt the faculty there was doing an adequate job of preparing students for their last two years at a senior university, (2) he represented Clemson recently at the inauguration of a new Chancellor at the University of Denver, (3) representation of the Faculty on the Honorary Degree Committee by the President of the Faculty Senate, the Past President of the Faculty Senate, and the President of the Research Faculty Council--as announced earlier--is not permissible under the constitutional by-laws of the Board of Trustees and, therefore, the representation for this year will consist of the President of the Faculty Senate and two members of the Senate whom he has asked to serve, namely, Miss Harriet Holman and J. K. Reed, (4) Dean Hurst will attempt to get reports of the University's Standing Committees printed in the Newsletter, (5) on the academic calendar for 1968-69, according to Dean Hurst, Saturday of Homecoming Weekend will be shown as a holiday, (6) "flu shots" will be available to faculty in Room 1 of the Physics building on October 26th, and (7) in a discussion with Dean Hurst it was agreed that the "Rat" System is dying and that no Senate action concerning it is necessary.

The report of the Admissions and Scholarship Committee was concerned entirely with faculty evaluation. R. C. Harshman, Chairman of the Committee, reviewed the recommendation of the Committee on Undergraduate Teaching to Dean Hurst which reads, in part,

Although it remains to be demonstrated, on this or any other campus, that faculty evaluation by the student body materially improves the quality of undergraduate teaching; it has been demonstrated that the willingness of faculties to be so evaluated improves the confidence of student bodies in the competence of said faculties, and opens channels of student-faculty communication which can be (but not always are) beneficial to the academic health of an institution. Therefore, the Committee on Undergraduate Teaching recommends that a system . . . of faculty-course evaluation be initiated and implemented at Clemson University, with the full support of the faculty and administration.

The results of such evaluation should be given only to the instructor concerned.

The Committee on Admissions and Scholarships, Dr. Harshman said, recommended that the Faculty Senate approve the recommendations of the Committee on Undergraduate Teaching relative to Evaluation of Faculty by Students with the following reservations: (1) the system be re-evaluated after one year of operation and (2) the following items be further studied: (a) cost of preparing the evaluation, (b) "security" of the results, and (c) insuring that only students currently enrolled in the course participate in the evaluation. Considerable discussion of the proposal followed between Dr. Harshman and several Senate members, among them J. P. Winter, J. M. Wannamaker, W. C. Capel, and J. G. Dinwiddie. Questions which were raised included the real purpose of the evaluation, the need for Senate action, and clarification of the proposal before the Senate. The recommendation was approved by a show of hands.

J. M. Wannamaker, Chairman of the Welfare Committee, presented a series of three resolutions to the Faculty Senate. The first one read as follows:

The Faculty Senate requests that the administration of Clemson University make an immediate and determined effort to disassociate itself from practices, policies, and procedures which discriminate, tend to discriminate, or might be interpreted as tending to discriminate between the sexes.

Though the resolution was prompted by the University's refusal of housing to a female faculty member whose husband is not associated with the University, it was phrased in very general terms so that it would cover a great many areas, Dr. Wannamaker said. In reply to various questions, Dr. Wannamaker indicated that the resolution could apply to students as well as faculty and to females and males, both student and faculty. An amendment was offered by R. F. Nowack, restricting the application of the resolution and declaring, "This recommendation pertains solely to faculty and faculty affairs." When no consensus of opinion emerged from the discussion that followed, a motion was made and accepted by voice vote to table the question.

The second resolution prepared by the Welfare Committee and presented by the Chairman was the following:

In view of the fact that faculty dining, lounge, and recreation facilities are uniquely deficient at Clemson University, the Faculty Senate requests that Clemson University provide as soon as possible facilities for a complete faculty club at least equal to that available at other state supported universities (e.g., U.S.C.).

After it was read, President Thurston recalled several unsuccessful attempts which have been made in the past few years to secure a faculty club. Others also made comments indicating support of the proposal and it was passed by a voice vote without opposition.

As a third resolution, Dr. Wannamaker moved, on behalf of the Welfare Committee,

That the administration of Clemson University take immediate steps to provide adequate (both qualitatively and quantitatively) temporary faculty parking facilities to take the place of the faculty parking

behind the Physics Building which has been lost to construction. It is suggested that parking be allowed on Palmetto Boulevard in front of the new library, that temporary or permanent parking facilities be constructed in the area between the new library and Palmetto Boulevard, and that some parking space be provided for Math, English, and Physics faculty parking behind and on the side of the old library building.

After some discussion, this resolution was approved by the Senate through a voice vote.

In an effort to deal with at least one aspect of the larger issue covered in the first resolution which had been tabled, Dr. Wannamaker proposed that the University explain why a female faculty member was denied housing because her husband was not employed by the University. No action could be taken, however, because a request for a quorum (after several Senators had left) revealed that a quorum was no longer present.

With the understanding that a special meeting would probably be called, President Thurston declared the regular October meeting adjourned at 5:25 P.M.

Respectfully submitted,

Rameth Owens (Mrs. Walton H., Jr.)
Secretary

Absent: F. C. Alley, H. Brantley, V. S. Hodges, L. D. Huff, D. W. Lyons, A. F. Newton,
J. E. Pinckney, R. T. Reep, J. L. Richardson

MINUTES OF THE FACULTY SENATE

October 31, 1967

A special meeting of the Faculty Senate was held on October 31, 1967, in Olin Hall Auditorium, beginning at 4:18 P.M. Dr. James N. Thurston, President, presided.

Since the minutes of the regular October meeting were not yet completed, consideration of them was postponed until a later time. Business during the meeting consisted mainly of reports by the President of the Faculty Senate, by Chairmen of Senate Committees, and by individual Senators who are members of University Standing Committees. In addition the suggestion that an expression of sympathy be sent from the Senate to the widow of Dr. Peter Carodemos was considered. And several items were recommended from the floor for study by the Senate.

President Thurston's report was relatively brief, covering three items. First, he said he had passed on to Dean Hurst in the prescribed form (on a separate sheet, signed) the three resolutions approved by the Faculty Senate at its regular meeting on October 24th. In addition, he wrote a letter to Dean Hurst, explaining what was done at the meeting and reviewing, in particular, the practical problems which had fostered the Welfare Committee's proposal (tabled by the Senate) concerning non-discrimination on the basis of sex. Second, President Thurston reported his effort to determine whether or not a long-range planning committee existed at Clemson led him to Wright Bryan, Vice-President for Development. According to Mr. Bryan, there is a Building Planning Committee at Clemson which consists of the vice-presidents and others and which discusses needs as they arise and consults with the specific department heads involved. Third, President Thurston said, since representation of the Faculty on the Honorary Degree Committee by the President of the Faculty Research Council is not permissible under the constitutional by-laws of the Board of Trustees, he felt a motion was in order recommending a change in the by-laws. It was decided that such a motion should be prepared after contact with the Research Faculty Council and an Ad Hoc Committee was appointed, consisting of J. B. Whitney, Jr. (Chairman), L. D. Huff, and H. Brantley.

The only committee of the Faculty Senate having business to report was the Policies Committee. J. G. Dinwiddie, Chairman, said that it had considered, among other items, (1) the size and rate of growth of the Faculty Senate, (2) the possibility of merging the Academic Faculty Senate and the Research Faculty Council, and (3) the suspension of classes on Homecoming Day after the academic calendar had been established for the year. A review of the records revealed that in the recent past the Faculty Senate had devoted considerable time to each of the first two questions. On September 2, 1965, the size and rate of growth of the Senate was considered and a decision was made to postpone action until Senate membership approached fifty. After a great deal of committee work, a proposal to merge the Senate and Council was rejected on April 14, 1964. Therefore, unless there is some indication that the Senate's thinking is now different from that expressed in 1964 and 1965, the Policies Committee is reluctant at this time to reinvestigate these questions in the detail necessary to bring proposals before the Senate. The third matter--the suspension of classes on Homecoming Day after the academic calendar had been established for the year--has become a sore spot with the faculty. It is especially irritating, Dr. Dinwiddie said, since the Senate's request last year that this day be established in advance as a holiday was rejected. However, the request may have had some delayed effect, for Dean Hurst has told President Thurston that next year Saturday of Homecoming Weekend will be listed as a holiday on the academic calendar. Therefore, Dr. Dinwiddie concluded, though the Senate was dissatisfied with the way the matter was handled, there seems to be no need for further action at this time.

Very brief reports on the activities of the various Standing Committees of the University were made by members of the Faculty Senate serving on them. The names of the committees and the Senators reporting were (1) Admissions, V. S. Hodges, (2) Archives, Rameth Owens, (3) Faculty Basic Research, S. M. Lukawecki, (4) Curriculum, J. N. Thurston, (5) Fine Arts, M. S. Steadman, (6) Graduate Council, Harriet Holman, (7) Honors and Awards, Eugene Park, (8) Improvement of Undergraduate Teaching, J. B. Whitney, (9) Library, J. D. Antrim, and (10) Schedules, R. F. Nowack. A report from the Patent Committee will be presented at a later meeting. And, since no Senator present is a member of the Honors Committee, no report was available on its activities. Most committees, it was indicated, have had several meetings and the minutes of those meetings will be appearing shortly in the Newsletter. In addition to these brief reports a lengthy one was made by J. D. Antrim who is the Faculty Senate Representative on the University Parking and Traffic Control Committee. Dr. Antrim reported, among other things, that (1) according to the Security Division's count, no loss in the number of parking places was suffered when those behind the Physics Building were blocked off, for others to replace them were made available nearby, (2) the barricade behind the old library will probably remain there, (3) that new parking stickers to replace faded ones are on order and should arrive soon, and (4) that the committee recommended writing a letter to President Edwards, urging long-range planning of parking facilities. In reply to a question about provisions for short-term parking around campus, Dr. Antrim said that timed spaces are for short-term parking and that a sizeable number of them have been created.

When the suggestion was considered that an expression of sympathy be sent from the Senate to the widow of Dr. Peter Carodemos (Professor Emeritus of Chemistry), it was pointed out that Leonard Booker had also died recently. Therefore, the proposal was expanded and the Senate by voice vote agreed that President Thurston, on behalf of the Senate, should express condolence to Mrs. Carodemos and Mrs. Booker.

Near the end of the meeting several questions were raised. J. V. Reel asked about April notification of salaries. Since no information had yet been received, President Thurston said he would write a letter to Dean Hurst about it. The possibility of securing limousine service to and from the airport was suggested by J. D. Antrim as a means of relieving pressure on the car pool. Harriet Holman suggested that simplification of bookkeeping might also relieve pressure on the car pool by allowing reimbursement to persons using their own autos. A question about the scheduling of football games was raised by S. F. Hulbert who urged that they be arranged on a "home and home" basis, especially with Georgia Tech.

The meeting was adjourned at 5:15 P.M.

Respectfully submitted,

Rameth Owens (Mrs. Walton H., Jr.)

Absent: D. W. Bradbury, E. B. Eskew, R. C. Harshman, A. T. Hind, D. W. Lyons,
J. H. Marvin, R. F. Mixon, J. E. Pinckney, T. L. Senn

APPROPRIATIONS FOR FEDERAL EDUCATION PROGRAMS

<i>Program</i>	<i>Fiscal Year 1968</i>	<i>Fiscal Year 1967</i>
Higher Education Act of 1965	\$654,200,000	\$611,623,000
Title I, Community Services	10,000,000	10,000,000
Title II, Library Aid		
Materials	25,000,000	25,000,000
Training and Research	8,200,000	3,700,000
Library of Congress	5,000,000	3,000,000
Title III, Developing Institutions	30,000,000	30,000,000
Title IV, Student Aid		
Opportunity Grants	140,600,000	114,500,000
Interest on Guaranteed Loans	40,000,000	43,000,000
Work-Study Program	139,900,000	134,100,000
NDEA Student Loans	190,000,000	190,000,000
Title V, Teacher Training		
Teacher Fellowships	35,000,000	30,000,000
Teacher Corps	13,500,000	11,323,000
Title VI, Teaching Equipment	17,000,000	17,000,000
Higher Education Facilities Act	650,000,000*	713,000,000
Title I, Undergraduate Grants		
Four-Year Colleges	300,000,000	353,300,000
Two-Year Colleges	100,000,000	99,600,000
Title II, Graduate Grants	50,000,000	60,000,000
Title III, Loans	200,000,000*	200,000,000
NDEA Fellowships	86,600,000	80,900,000
NDEA Language and Area Studies	15,700,000	15,700,000
NDEA Teacher Training Institutes	37,250,000	37,250,000
Health Manpower Education	164,663,000	136,247,600
Medical-Dental School Construction	175,000,000	135,000,000
Nursing School Construction	25,000,000	25,000,000
Educational Research, USOE	90,967,000	80,650,000
Vocational Education Act	199,309,000	198,215,000
Aid to Federally Impacted Schools	439,137,000	461,763,000
Elementary-Secondary Education Act	1,626,607,000	1,392,825,000
Education of disadvantaged	1,190,000,000	1,059,000,000
Library materials	104,457,000	102,000,000
Supplementary Centers	208,750,000	135,000,000
State education departments	29,750,000	29,750,000
Education of handicapped	53,400,000	37,875,000
Adult education	40,250,000	29,200,000
National Institutes of Health	1,178,924,000	1,123,162,000
National Science Foundation	495,000,000	480,000,000
NASA Sustaining University Program	10,000,000	31,000,000
Arts and Humanities Foundation	12,200,000	9,000,000

**No Fiscal 1968 appropriation for academic facilities loans. \$200 million allocated from sales participations and carryover funds.*

PERSONAL MENTION

--F. E. Kirkley (AgEd) and W. J. Barket (Ext) were among recipients of Wildlife Federation awards this year for outstanding service in the conservation field. Kirkley was selected as Conservation Educator of the Year in South Carolina and Barker was honored as Forest Conservationist of the Year. Engraved awards were presented at an annual Awards Banquet in Greenville, October 27.

--Cyril O. Shuler (IM) has been invited by the Department of Health, Education and Welfare to serve as a consultant to the Public Health Service, Division of Hospital and Medical Facilities.

--Richard J. Calhoun (Engl) is the author of "Randall Jarrell: Towards a Reassessment" in the November issue of the South Atlantic Bulletin (Nov. 1967) pp. 1-4.

--Richard J. Calhoun (Engl) served as secretary of the Literary Criticism Section at the South Atlantic Modern Language Association in Atlanta, Georgia, November 9-11, and was elected chairman for 1968. H. M. Cox (Engl) was a member of the Executive Board of the Association for the past three years.

--John Idol (Engl) served as secretary of the Advanced Composition Section at the South Atlantic Modern Language Association in Atlanta, Georgia, Nov. 9-11, and was elected chairman for 1968.

--Harriet Holman (Engl) read a paper on "The Modern Short Story" at the American Association meeting in Atlanta, Georgia, November 9-11.

--W. J. Lanham (AgEc) spoke on the subject "Prospects for Future Employment in Agriculture" at a regional conference on Growth Prospects of the Piedmont Crescent, Charlotte, November 7-9.

--W. M. McLellon (AgE) presented a paper entitled "The Removal of Radionuclides from Water by Hydrous Ferric Oxide" at the Southeastern Regional Meeting, American Chemical Society, Atlanta, Georgia, November 1. It was co-authored with Dr. H. M. Clark, Rensselaer Polytechnic Institute, Troy, New York.

--Patricia Wannamaker (German) has qualified as consultant on foreign language teaching to the Bureau of Elementary and Secondary Education, a division of the Office of Education in the Department of Health, Education, and Welfare.





SOUTH CAROLINA ROOM
APR 17 1968

CLEMSON

NEWSLETTER

INFORMATION FOR THE STAFF OF CLEMSON UNIVERSITY

Vol. 7 No. 9

January 1, 1968

DUPLICATE

CALENDAR: January 1 - January 15, 1968

Jan. 3	W	Matriculation, New Students - Tillman Hall.
Jan. 4	Th	Woman's Club, Clemson House.
Jan. 4	Th	Graduate Wives Club, 8 p.m., YMCA. The program features quick-cooking and interesting recipes for the student wife.
Jan. 4	Th	Freshman Basketball - Furman at Clemson, 6 p.m.
Jan. 4	Th	Basketball - Furman at Clemson, 7:55 p.m.
Jan. 5-6	F-Sat	Registration, All Students.
Jan. 6	Sat	Late registration fee applies at noon.
Jan. 6	Sat	Freshman Basketball - University of South Carolina at Clemson, 6 pm.
Jan. 6	Sat	Basketball - University of South Carolina at Clemson, 7:55 p.m.
Jan. 8	M	Classes begin, regular schedule.
Jan. 9	T	Basketball - Clemson at Duke, 8:10 p.m.
Jan. 9	T	Sage Club Dinner Meeting, 6:30 p.m., Clemson House.
Jan. 10	W	Religion Lecture - Dr. Nolan P. Jacobson of Winthrop College will speak on the subject: "Buddhism and the Spirit of Modernism", 8 p.m., Brackett Hall Auditorium.
Jan. 11	Th	Sigma Xi Program, Clemson House at noon. Dr. H. H. Macaulay will speak on "Research in Economics of Water Conservation".
Jan. 11	Th	Swimming Meet - Davidson at Davidson, 4 p.m.
Jan. 11	Th	Freshman Basketball - Davidson at Clemson, 6 p.m.
Jan. 11	Th	Basketball - Virginia at Clemson, 7:55 p.m.
Jan. 12	F	Last day for matriculation.
Jan. 12	F	Swimming Meet - William & Mary at Williamsburg.
Jan. 13	Sat	Freshman Basketball - North Carolina at Clemson, 6 p.m.
Jan. 13	Sat	Basketball - North Carolina at Clemson, 7:55 p.m.
Jan. 13	Sat	Swimming Meet - University of Maryland at College Park, 8 p.m.

Jan. 15	M	Freshman Basketball - Georgia at Clemson, 6 p.m.
Jan. 15	M	Basketball - Maryland at Clemson, 7:55 p.m.
Jan. 16	T	Faculty Research Council, 4 p.m., Conference Room, 28 Tillman Hall.
Jan. 16-18	T,W,Th	Religious Emphasis Week.
Jan. 18	Th	Swimming Meet - Emory University at Clemson, 4 p.m.
Jan. 19	F	Last day to add a subject.
Jan. 20	Sat	Basketball - University of Virginia at Charlottesville, 1:55 p.m. (To be televised)
Jan. 22	M	Freshman Basketball - North Greenville Jr. College at Tigerville.
Jan. 23	T	Faculty Senate, 4:15 p.m., Olin Hall Auditorium.
Jan. 24	W	Basketball - LSU at Baton Rouge, 8:55 p.m., EST.
Jan. 27	Sat	Freshman Basketball - North Greenville Jr. College at Clemson, 6 pm.
Jan. 27	Sat	Basketball - Virginia Tech at Clemson, 7:55 p.m.
Jan. 27	Sat	Swimming Meet - University of Tennessee at Clemson, 3 p.m.
Jan. 30	T	Freshman Basketball - Gainesville Jr. College at Clemson, 6 p.m.
Jan. 30	T	Basketball - Wake Forest at Clemson, 7:55 p.m.
Jan. 31	W	Swimming Meet - University of Georgia at Athens
Feb. 1	Th	Woman's Club, Clemson House
Feb. 1	Th	Graduate Wives Club, YMCA.
Feb. 1	Th	Freshman Basketball - Georgia Tech at Atlanta
Feb. 1	Th	Basketball - Georgia Tech at Atlanta
Feb. 2	F	Last day to order diploma for May graduation
Feb. 2	F	Last day to drop subject without record of drop.
Feb. 2-3	F-Sat	Midwinter Dances - Dining Hall
Feb. 3	Sat	Swimming Meet - West Georgia at Clemson, 3 p.m.
Feb. 3	Sat	Basketball - N. C. State at Raleigh
Feb. 6	T	Sage Club Dinner Meeting, Clemson House
Feb. 6	T	Swimming Meet - Georgia Tech at Clemson, 4 p.m.
Feb. 6	T	Concert - John Shirley-Quirk, Field House, 8 p.m.

RELIGIOUS EMPHASIS WEEK

Religious Emphasis Week '68 will be initiated Tuesday, Jan. 16, with an address by Gen. Harold K. Johnson, Chief of Staff of the Army, in Tillman Hall Auditorium at 7 p.m.

Featured speaker on Wednesday, Jan. 17, will be Don Schinnick, a linebacker for the Baltimore Colts, also at 7 p.m. in Tillman Auditorium.

Gertrude Behanna, noted lecturer at many colleges and universities, author of "The Late Liz", and recording artist, will speak Thursday, Jan. 18, at 7 p.m. in Tillman Auditorium.

Microphones will be provided in the main aisles of the auditorium to facilitate directing questions to the speakers. Student leaders will moderate the question and answer sessions.

CLEMSON LOYALTY FUND BEGINS NEW YEAR

The Clemson Alumni Loyalty Fund, a program of the Alumni Association that has provided upward of \$1.2 million for Clemson's total welfare since 1956, has begun its new annual giving year. Non-alumni faculty and staff of the University are urged to participate in this program of Clemson development by making gifts to the Loyalty Fund in an Associate Membership capacity.

Gifts may be made to the Loyalty Fund and addressed to the Clemson Alumni Association, Clemson, S. C. The Loyalty Fund is used to further programs of scholarship, faculty development, graduate education, student activities and permanent endowment for which other funds are not available.

At its November meeting, the National Council of the Alumni Association (1) changed the name of The Clemson Alumni News to The Clemson World, (2) revised the publications' format to four magazines and three tabloid newspaper issues a year, and (3) established a circulation policy that will send one magazine and two tabloid issues to all alumni of known addresses and the other four issues only to the active members and active Associate Members of the Alumni Association.

In January the Association's Executive Committee will meet for the purpose of making allocations from the income of the 1967 Alumni Loyalty Fund. At that time the Association's 1967 financial statement will be made public.

ALUMNI FUND AIDS STUDENT ORGANIZATIONS

This year the Clemson Alumni Association established the Student Program Fund in an effort to further worthwhile programs of student organizations. A grant of \$4,500 was made available to Student Government for this purpose and Student Government entertains grant applications from the individual organizations and decides upon allocations.

The following eighteen student organizations received grants this year for the purposes indicated:

Clemson Players, production expenses; Fourth Regimental Pershing Rifles, repairs to headquarters; Inter-Fraternity Council, service projects; Alpha Phi Omega, erection of Clemson University sign; Radio WSBF, a recorder; Amateur Radio/Mars Club, a transmitter; University Glee Club, tour expenses; Circle K, campus beautification; Sailing Club, to attend meet at Boston; Forestry Club, to help defray expenses of regional meeting at Clemson; Pershing Rifles -- Co. C-4, uniforms; Fencing Club, uniforms; Scabbard and Blade, uniforms; Rifle Club, firing jackets; YMCA Cabinet, general expenses; Scuba Diving Club, compressor; Tiger Brotherhood, Tiger Statue for Coliseum; Women's Student Association, general expenses.

PERSONAL MENTION

--J. W. Hall (ChE) spoke to the Western South Carolina Section of the American Institute of Chemical Engineers on the subject of "Problems in Catalysis" on November 13, Greenville, South Carolina.

--G. F. Meenaghan (ChE) presented a paper "Developments in Deep Stabilization Ponds" to the 18th Annual Meeting of the Pollution Control Section of the South Carolina Water and Pollution Control Association on November 17, Columbia, South Carolina.

--F. C. Alley (ChE) gave a paper entitled "Air Pollution Research at Clemson" before the South Atlantic Section Air Pollution Control Association in Charleston, October 26. Dr. Alley was elected Secretary-Treasurer of the Section for the coming year.

--G. F. Meenaghan (ChE) and D. F. Bruley (ChE) have contributed chapters to a new book "Chemical Engineering in Medicine and Biology" edited by Daniel Hershey of the University of Cincinnati and published by Plenum Press.

--Lyle C. Wilcox (EE) has been appointed to act as a member of the Steering Committee for the Southeastern Simulation Council as of October 4, 1967.

--J. G. Goree (EM) has published a paper entitled "In-Plane Loading in an Elastic Matrix Containing Two Cylindrical Inclusions" in the Journal of Composite Materials, Vol. 1, No. 3 (1967), p. 404.

The following members of the Department of Mathematics participated in the meeting of the Southeastern Section of American Mathematical Society held at the University of Tennessee on November 17-18.

--C. V. Aucoin chaired the Algebra Session on November 17.

--J. V. Brawley, Jr., presented a paper entitled "Similar Involutory Matrices, Modulator".

--Andrew Sobczyk presented a paper entitled "Multi-functions Associated With Steiner Systems".

--Harold Reiter presented a paper coauthored with Andrew Sobczyk entitled "Sets of Homeomorphisms". (Preliminary report)

--B. J. Prochaska presented a paper coauthored with Kenzo Seo entitled "Bounded Linear Transformation on Random Normed Spaces".

--J. W. Kenelly presented a paper coauthored with W. H. Ludescher of Loras College entitled "Convex Kernels and Extreme Points".

--U. S. Jones (Agron) has been invited to represent Clemson University and South Carolina on the Advisory Board of the National Soybean Improvement Council which was established in 1948 by the National Soybean Processors Association.

--J. W. Kenelly (Math) spoke at the Mathematics Colloquium, Presbyterian College, on November 29 on the subject: "Undergraduate Research Program in Convexity".





CLEMSON NEWSLETTER

INFORMATION FOR THE STAFF OF CLEMSON UNIVERSITY

Vol. 7 No. 10

January 15, 1968

CALENDAR: January 15 - January 31, 1968

- | | | |
|------------|--------|---|
| Jan. 15 | M | Freshman Basketball - Georgia at Clemson, 6 p.m. |
| Jan. 15 | M | Basketball - Maryland at Clemson, 7:55 p.m. |
| Jan. 16 | T | Faculty Research Council, 4 p.m., Conference Room, Tillman Hall. |
| Jan. 16-18 | T,W,Th | Religious Emphasis Week - 7 p.m., Tillman Hall Auditorium. General Harold K. Johnson, Chief of Staff of the Army will speak on Tuesday; Don Schinnick, a linebacker for the Baltimore Colts, will speak on Wednesday; Gertrude Behanna, noted lecturer at many colleges and universities, author of "The Late Liz", and recording artist, will speak on Thursday. |
| Jan. 18 | Th | Swimming Meet - Emory University at Clemson, 4 p.m. |
| Jan. 18 | Th | Dr. Charles A. Moreland, Department of Chemistry, North Carolina State University, will lecture on "Flourine Exchange Reactions as Studied by NMR" in Room 131, Brackett Hall, 4 p.m. |
| Jan. 19 | F | Last day to add a subject. |
| Jan. 20 | Sat | Basketball - University of Virginia at Charlottesville, 1:55 p.m. (To be televised) |
| Jan. 22 | M | Freshman Basketball - North Greenville Jr. College at Tigerville. |
| Jan. 23 | T | Faculty Senate, 4:15 p.m., Olin Hall Auditorium. |
| Jan. 24 | W | Basketball - LSU at Baton Rouge, 5:55 p.m., EST. |
| Jan. 24 | W | Vietnam Symposium, Chemistry Auditorium, 7:30 p.m., sponsored by the Clemson Chapter of the American Association of University Professors. The public is invited. |
| Jan. 25 | Th | Dr. Robert W. Brehme of Wake Forest University will speak on the subject: "The Continuing Development of Man's Concept of the Universe", 8 p.m., Room 101 Physics. He will give a more technical talk: "Curved Space-Time, Gravitation, Cosmology" at 4 p.m., same location. |
| Jan. 26 | F | Seminar - "Engineering Applications of Digital Computing" Sponsored by Department of Chemical Engineering, College of Engineering, Clemson University and S. C. Technical Services Program, State Development Board - 8:15 a.m., Earle Hall. |

Jan. 27	Sat	Freshman Basketball - North Greenville Jr. College at Clemson, 6 p.m.
Jan. 27	Sat	Basketball - Virginia Tech at Clemson, 7:55 p.m.
Jan. 27	Sat	Swimming Meet - University of Tennessee at Clemson, 3 p.m.
Jan. 30	T	Freshman Basketball - Gainesville Jr. College at Clemson, 6 p.m.
Jan. 30	T	Basketball - Wake Forest at Clemson, 7:55 p.m.
Jan. 31	W	Swimming Meet - University of Georgia at Athens.
Feb. 1	Th	Woman's Club, Clemson House
Feb. 1	Th	Graduate Wives Club, YMCA.
Feb. 1	Th	Freshman Basketball - Georgia Tech at Atlanta.
Feb. 1	Th	Basketball - Georgia Tech at Atlanta.
Feb. 2	F	Last day to order diploma for May graduation.
Feb. 2	F	Last day to drop subject without record of drop.
Feb. 2-3	F-Sat	Midwinter Dances - Dining Hall.
Feb. 3	Sat	Swimming Meet - West Georgia at Clemson, 3 p.m.
Feb. 3	Sat	Basketball - N. C. State at Raleigh.
Feb. 6	T	Sage Club Dinner Meeting, Clemson House.
Feb. 6	T	Swimming Meet - Georgia Tech at Clemson, 4 p.m.
Feb. 6	T	Concert - John Shirley-Quirk, Field House, 8 p.m.
Feb. 7	W	Freshman Basketball - University of South Carolina at Columbia.
Feb. 7	W	Basketball - University of South Carolina at Columbia.

FACULTY APARTMENTS FOR RENT

Several faculty apartments are available for immediate rental. Contact the Housing Office, Tillman Hall, Ext. 343 or 347.

DR. R. C. EDWARDS APPOINTED MEMBER, BOARD OF CONTROL FOR SOUTHERN REGIONAL EDUCATION

On December 7, Governor Robert E. McNair appointed Dr. R. C. Edwards a member of the Board of Control for Southern Regional Education. This appointment expires on June 30, 1971.

FELLOWSHIP AWARDS

The University has received 13 new NDEA Fellowships for the academic year 1968-69. The following doctoral programs at Clemson have received approval from NDEA:

- Agricultural Economics
- Agronomy & Soils
- Animal Physiology
- Bioengineering
- Botany & Bacteriology
- Chemical Engineering
- Chemistry
- Civil Engineering
- Engineering Mechanics
- Entomology & Zoology
- Mechanical Engineering
- Nutrition
- Physics

Available funds have permitted the award of 3,328 three-year fellowships for tenure beginning in 1968-69, compared with 6,000 such fellowships awarded for 1967-68. A total of 199 institutions are approved for support in 1968-69, compared with 193 institutions in 1967-68.

FULBRIGHT AWARDS

The December Bulletin on the U. S. Government educational exchange program lists approximately 80 lectureships that are still available to American faculty members for 1968-69 at institutions of higher learning in Europe, Asia, Africa, the Middle East, and Latin America. The Bulletin may be consulted at the office of the Faculty Fulbright Adviser, F. I. Brownley, Jr., Room 17, Tillman Hall.

COLLEGE TEACHER PROGRAMS

The Division of Undergraduate Education in Science of the National Science Foundation has prepared a Directory of College Teacher Programs. Outlined, for the Summer of 1968, are Research Participation, Summer Institutes, and Short Courses. Also outlined, for the 1968-69 academic year, are Academic Year Institutes and In-Service Seminars. This directory is available for reading in the office of the Dean of the University.

MINUTES OF THE FACULTY SENATE

November 14, 1967

The Faculty Senate met for a regular monthly session on November 14, 1967, in Olin Hall Auditorium, beginning at 4:20 p.m. President James N. Thurston presided.

Consideration of the minutes of the two previous meetings evolved into a discussion of minutes in general and their coverage. After a variety of opinions were expressed and suggestions made, it was proposed that full minutes be kept for the Faculty Senate Record and condensed ones for the Newsletter. This was defeated by a show of hands. With minor corrections the minutes for the meetings of October 24 and 31, 1967, were approved as circulated, for both the Faculty Senate Record and publication.

Major items of business during the session were reports from the Ad Hoc Committee on composition of the Honorary Degree Committee, from the Policies Committee, and on a meeting of the Educational Council.

Reporting on the work of the Ad Hoc Committee on the composition of the Honorary Degree Committee, John B. Whitney, Jr., Chairman, presented a resolution for adoption and transmittal to the Board of Trustees. It proposed that faculty membership on the Honorary Degree Committee in the future include the President of the Faculty Senate, the Chairman of the Research Faculty Council, and the Past President of the Faculty Senate; it also outlined procedure by which a replacement would be selected if the Past President of the Faculty Senate were no longer associated with the university. The resolution was accepted by voice vote.

The Chairman of the Policies Committee, J. G. Dinwiddie, reviewed the committee's work and presented a resolution that the Faculty Senate recommend to the administration of Clemson University the establishment of procedures which would involve academic faculty in the future selection of academic administrators. He emphasized that what was being proposed was the principle of involvement, not the procedures. Following some discussion, the recommendation was accepted by voice vote.

Transactions of the Educational Council at a recent meeting were reported by President Thurston and a proposal from the Council about graduate record examinations was presented to the Faculty Senate. It was recommended that "effective in the 1968-69 academic year, the GRE no longer be given as a university institutional test but rather that it be given by the colleges and schools, or by their departments, as recommended by the Dean of the University upon the advice of the Academic Deans." After several questions were raised about the purpose of the examination and its advantage to the student, the resolution was passed by voice vote.

A resolution was presented from the floor on behalf of the Chemistry Department, requesting the Faculty Senate to "express its opposition to the practice of changing the academic calendar long after the calendar has been established The changing of schedules and the cancelling of lectures and laboratories on short notice, particularly late in the semester, has a deleterious effect on the academic program and, if nothing else, is a source of exasperation and irritation to the faculty." The resolution was approved unanimously by the Senate.

The remaining items of business were (1) a report (by letter) from J. D. Antrim on the library at Greenville TEC, (2) an announcement from the Welfare Committee of the possibility of scheduled exercise for faculty, both men and women, (3) a question about April notification of salaries, and (4) a suggestion that get well wishes be sent to Henry Hill.

The meeting was adjourned at 5:13 p.m.

Respectfully submitted,

Rameth Owens (Mrs. Walton H., Jr.)
Secretary

Absent: D. W. Bradbury, E. B. Eskew, V. S. Hodges, L. D. Huff, A. K. Jensen,
D. W. Lyons, A. F. Newton, R. T. Reep, T. L. Senn

MINUTES OF THE RESEARCH FACULTY COUNCIL MEETING

November 21, 1967

The monthly meeting of the Research Faculty Council was called to order at 4:05 P.M. in Room No. 28 of Tillman Hall by Chairman Fox.

The minutes of the October 19, 1967 meeting were approved as circulated.

Members absent were: W. P. Byrd, U. S. Jones, W. C. Mickelberry, W. B. Barlage, J. J. Porter, J. V. Walters, and Lamar Brown.

Chairman Fox announced that the Personnel Office had offered its full cooperation to the Ad Hoc Committee studying the problem of pay scales for non-professional personnel.

The Council unanimously supported the Faculty Senate Resolutions on the establishment of a Faculty Club. Chairman Fox appointed A. S. Tombes and S. F. Hulbert to serve on a committee with representatives from the Faculty Senate to develop a more detailed proposal concerning the establishment of a Faculty Club.

Mr. J. W. Weeden, Chief of Security, spoke to the Council on parking plans and problems on the campus.

Respectfully submitted,

S. F. Hulbert
Secretary

CLEMSON UNIVERSITY

Office of Admissions and Registration

December 15, 1967

RESULTS OF GRADUATE RECORD EXAMINATIONS INSTITUTIONAL TESTING PROGRAM

The Graduate Record Examinations were given on October 24 and 26 to 709 candidates for graduation in December 1967 and May and August 1968.

As an aid to evaluation, means have been computed on the Aptitude Test by Colleges, Schools, Departments, and major areas as appropriate. Comparisons with 1965, 1966, and January 1967 totals are included. These data are as follows:

APTITUDE TEST

University

Test	No.	Oct. 1967	Jan. 1967	1966	1965
Verbal	709	454.8	457.7	439.8	424.3
Quantitative	709	584.6	589.2	568.2	567.1

Colleges and Schools

College or School	No.	Verbal				Quantitative			
		Oct. 1967	Jan. 1967	1966	1965	Oct. 1967	Jan. 1967	1966	1965
Agric. & Bio. Sci.	114	458.5	431.9	418.5	377.1	551.0	552.4	531.8	523.4
Architecture	10	441.0	457.8	431.8	405.9	546.0	647.2	573.0	558.6
Arts & Sciences	179	481.3	482.8	469.5	477.9	569.0	551.0	536.1	542.0
Education*	92	412.0	386.1	409.0		516.6	526.7	535.5	
Engineering	158	459.1	460.5	439.6	438.2	655.8	665.2	624.2	621.5
Ind. Mgt. & Text. Sci.	156	443.7	433.8	419.1	391.3	597.4	591.7	557.8	545.2

* School of Education established July 1, 1965.

Department	No.	Verbal				Quantitative			
		Oct. 1967	Jan. 1967	1966	1965	Oct. 1967	Jan. 1967	1966	1965
<u>Agric. & Bio. Sci.</u>									
Agric. Econ.	19	393.7	398.6	388.0	372.9	547.4	591.4	560.0	522.9
Agric. Educ.					342.6				490.0
Agric. Engr.					407.5				637.5
Agronomy	7	480.0	428.9	425.7	354.5	564.3	521.1	512.9	495.5
Animal Science	17	385.3	367.5	354.0	387.3	505.9	526.2	302.0	516.4
Biology	35	484.9	467.0	461.2	432.4	531.1	572.5	528.4	520.0
Dairy Science	5	348.0	313.3	392.9	414.3	518.0	470.0	512.9	592.9
Entomology	1	510.0	480.0	450.0	460.0	580.0	565.0	530.0	490.0
Food Science	4	425.0		490.0	320.0	555.0		525.0	600.0
Forestry	16	458.8	457.6	432.4	385.8	581.9	566.5	586.5	533.3
Horticulture	8	493.8	428.0	371.5	353.3	566.3	516.0	488.5	536.7
Poultry Science	2	485.0	350.0	390.0	286.7	520.0	530.0	497.5	450.0
<u>Architecture</u>									
Architecture	6	448.3	459.3	436.5	405.9	551.7	648.7	568.8	558.6
Bldg. Const.	3	403.3	450.0	414.3		523.3	640.0	588.6	
Pre-Architecture	1	510.0				580.0			
<u>Arts & Sciences</u>									
Arts & Sciences	94	489.1	484.0	469.3	468.9	538.8	517.5	500.9	523.2
Chemistry	5	466.0	542.9	538.0	586.7	646.0	628.6	655.0	593.3
Education					395.0				370.0
Geology	4	430.0	413.3	540.0		560.0	590.0	600.0	
Mathematics	26	490.8	455.0	450.9	548.3	673.5	684.4	630.9	681.7
Medical Technology	1	390.0	493.8	486.7		430.0	551.3	550.0	
Physics	5	500.0	545.0	486.0	547.5	690.0	678.3	639.0	692.5
Pre-Medicine	43	467.2	471.5	450.4	453.1	554.9	562.7	525.6	526.9
Pre-Pharmacy	1	380.0				490.0			
<u>Education</u>									
Agric. Educ.	18	390.6	362.0	391.3		494.4	490.0	532.5	
Elem. Educ.	7	405.9				435.7			
Ind. Educ.	25	403.6	388.3	414.5		543.2	566.7	532.7	
Science Teaching	16	438.1	500.0	520.0		577.5	590.0	575.0	
Secondary Educ.	15	449.3				516.0			
Recreation & Park Adm.	11	380.9				456.4			
<u>Engineering</u>									
Agric. Engr.	5	444.0	450.0	430.0		602.0	620.0	630.0	
Ceramic Engr.	14	501.4	545.0	418.1	436.7	645.7	666.7	596.9	605.0
Chemical Engr.	19	478.0	469.0	458.1	463.9	694.7	669.0	634.5	650.9
Civil Engr.	30	436.7	419.5	435.9	429.8	654.3	663.3	625.5	613.7
Electrical Engr.	38	462.1	456.9	438.6	455.6	565.8	679.2	614.9	632.3
Industrial Educ.					395.5				556.4
Industrial Engr.	19	447.4	418.6	443.3	475.7	624.7	630.0	605.6	627.1
Mechanical Engr.	29	451.0	472.2	433.4	416.1	652.4	661.6	637.1	618.0
Metallurgical Engr.	4	485.0		575.0		660.0		735.0	
<u>Ind. Mgt. & Text. Sci.</u>									
Economics	55	450.2				548.7			
Industrial Mgt.	79	443.5	436.8	428.0	402.9	620.5	608.4	562.4	546.6
Textile Chemistry	3	500.0	470.0	464.0	430.0	653.3	640.0	590.0	612.5
Textile Mgt.	11	403.6	411.1	395.6	368.3	561.8	520.0	517.2	527.4
Textiles	7	424.3				602.9			
Textile Science	1	500.0	440.0	363.8	320.0	640.0	635.0	611.3	600.0

RELIGIOUS EMPHASIS WEEK

A member of the Joint Chiefs of Staff, a star athlete, and the author of a best-selling book will share their personal religious experiences with Clemson University students and faculty during Religious Emphasis Week, Jan. 16-18.

Built around the theme, "An Experience in Faith," the evening convocations will feature U. S. Army Chief of Staff Gen. Harold K. Johnson who will speak on Jan. 16; Don Shinnick, a linebacker with the Baltimore Colts football team, Jan. 17; and Mrs. Gertrude Behanna who is among the most widely-known Christian women of the time, Jan. 18.

The public is invited to participate in the programs which will begin in Tillman Hall auditorium each evening at 7:30.

Gen. Johnson, the 24th Army Chief of Staff in line of succession since the inauguration of the Army General Staff in 1903, was appointed to his position in 1964 and is the youngest Chief of Staff since Gen. Douglas MacArthur.

Mrs. Behanna, who makes her home in Kerrville, Tex., when not traveling on speaking engagements, tells her story in "The Late Liz," an autobiography which has sold over a million copies and is written under the pen name of Elizabeth Burns.

"The Late Liz" tells the story of Mrs. Behanna's life as a millionaire's alcoholic daughter, a would-be suicide, who became at the age of 53, a "resurrected person."

Mr. Shinnick travels and speaks under the auspices of the Fellowship of Christian Athletes.

GIFTS AND GRANTS

--National Science Foundation to Department of Chemistry and Geology, \$3,120 for Undergraduate Research Participation in Chemistry during the summer of 1968.

PERSONAL MENTION

--P. M. Alexander (Hort) represented South Carolina at the initial meeting of Southern Regional Turf Research Workers at Auburn University, Auburn, Alabama, November 20-21, 1967. Dr. Alexander was named to serve on the "Committee for Turf Species and Varietal Release Recommendations for the Southern Region."

--J. T. Long (EE) was elected Vice-Chairman of the South Carolina Section of the Institute of Electrical and Electronics Engineers for 1968 at the State Meeting at Clemson.

PERSONAL MENTION (Cont.)

--Joe Sherman (Alum. Rel.) will chairman one panel discussion and be the principal speaker for another at the Southern-Southeastern District Conference (Virginia-Texas) of the American Alumni Council in Biloxi, Miss., at the end of January.

--James G. Goree (EM) presented a paper entitled "Axisymmetric Contact Stresses About A Smooth Elastic Spnere In An Infinite Solid Stressed Uniformly At Infinity" on November 17 at the winter annual A.S.M.E. meeting in Pittsburgh, Pennsylvania. This paper will be published in the Journal of Applied Mechanics.

--James G. Goree (EM) had a paper "In-Plane Loading In An Elastic Matrix Containing Two Cylindrical Inclusions" published in the October Journal of Composite Materials.

--C. C. Fain (CrE) was elected Treasurer of the Southeastern Section of the American Ceramic Society during their annual meeting in Atlanta, December 1 & 2.

--The following talks were presented by Ceramic Engineering Faculty and students at the annual meeting of the Southeastern Section of the American Ceramic Society, Atlanta, Georgia, December 1 & 2:

"Ceramic Bones", S. F. Hulbert, J. Klawitter and C. Talbert.

"Predicting Clay Properties with New Analytical Concepts", J. F. Duncan and C. R. Reese (students).

"Preassembling Brick Walls", John M. Burns (student).

--Wesley Witcher (Bot) was elected secretary of S-26 Committee (a regional committee working with the relationship of soil microorganisms to the incidence of diseases in plants) at the annual meeting at Blacksburg, Va., December 5-6.

--W. M. Epps (Bot) served as a member of a discussion panel and presented a paper entitled "Factors Affecting the Apparent Susceptibility of Plants to Disease" at a Vegetable Disease Screening Workshop held at Charleston, S. C. for Southeastern vegetable breeders and plant pathologists on November 16-17.

--D. W. Bradbury (ME) has accepted the appointment as a Faculty Senate representative on the University Parking and Traffic Control Committee. He will replace J. D. Antrim (CE).

--Andrew Sobczyk (Math) addressed the Mathematics Colloquium of North Carolina State University, Raleigh on December 7, 1967, on the topic, "Some Geometric and Combinatorial Problems".

--Bruce D. Cloaninger, Director, Fertilizer Inspection & Analysis, appeared on the program of the Alabama Soil Fertility Society, Inc., in Montgomery, Alabama on December 7, 1967, and gave a paper on "Achieving Quality Control in Fertilizer Production".

PERSONAL MENTION (Cont.)

--George B. Savitsky (Chem) participated in the Winter Institute for Quantum Chemistry, sponsored by NSF at the University of Florida, December 3-31.

--Bobby J. Prochaska (Math) presented two lectures at the University of South Carolina on November 30, entitled "The Criteria of Least Squares" and "An Introduction to Stochastic Processes".

--Joel V. Brawley (Math) presented two lectures at the University of South Carolina on December 12, entitled "The Gambler's Ruin" and "Can You Count?".



APR 17 1968

CLEMSON

NEWSLETTER

INFORMATION FOR THE STAFF OF CLEMSON UNIVERSITY

Vol. 7 No. 11

February 1, 1968

CALENDAR: FEBRUARY 1 - FEBRUARY 15, 1968

Feb. 1	Th	Woman's Club, Clemson House.
Feb. 1	Th	Graduate Wives Club, YMCA.
Feb. 1	Th	Freshman Basketball - Georgia Tech at Atlanta.
Feb. 1	Th	Basketball - Georgia Tech at Atlanta.
Feb. 2	F	Last day to order diploma for May graduation.
Feb. 2	F	Last day to drop subject without record of drop.
Feb. 2-3	F-Sat	Midwinter Dances - Dining Hall.
Feb. 3	Sat	Swimming Meet - West Georgia at Clemson, 3 p.m.
Feb. 3	Sat	Basketball - N. C. State at Raleigh.
Feb. 5	M	Graduate Seminar - Agronomy 825, 4 p.m. - Room A203 P&AS E. J. Cornwell - A management plan for a 2000-acre mixed pine-hardwood forest.
Feb. 6	T	Sage Club Dinner Meeting, Clemson House.
Feb. 6	T	Swimming Meet - Georgia Tech at Clemson, 4 p.m.
Feb. 6	T	Concert - John Shirley-Quirk, Field House, 8 p.m.
Feb. 7	W	Freshman Basketball - University of South Carolina at Columbia.
Feb. 7	W	Basketball - University of South Carolina at Columbia.
Feb. 8	Th	Sigma Xi Program - Dr. J. E. Halpin: Summer Research Program for Young Scientists - Noon, Clemson House.
Feb. 9	F	Swimming Meet - Wake Forest at Winston-Salem.
Feb. 10	Sat	Swimming Meet - Duke at Durham.
Feb. 10	Sat	Basketball - Wake Forest at Winston-Salem.
Feb. 12	M	Swimming Meet - University of South Carolina at Columbia.
Feb. 12	M	Graduate Seminar - Agronomy 825, 4 p.m. - Room A203 P&AS. Dr. H. L. Musen - Soil disruption and deep fertilizer appli- cation with soybeans.

Feb. 13	T	Religion Lecture - Dr. Elton Trueblood, Earlham College, Richmond, Indiana, will speak on the topic: "Religion and the Educated Man" at 8 p.m., Brackett Auditorium.
Feb. 15	Th	Concert - Odetta, Field House, 8 p.m.
Feb. 16	F	Basketball - North Carolina at Charlotte, 7:30 p.m. (North-South)
Feb. 17	Sat	Basketball - N. C. State at Charlotte, 7:30 p.m. (North-South)
Feb. 19	M	Preliminary reports due.
Feb. 19	M	Graduate Seminar - Agronomy 825, 4 p.m. - Room A203 P&AS T. C. Peele - The evaporation of water from soils.

FOLK SINGER REPLACES NAVY BAND IN CONCERT SERIES

The University Concert Series will present a performance by folk singer Odetta on February 15. She replaces the concert scheduled March 7 by the U. S. Navy Band, which had to cancel the engagement.

NSF GRANT FOR SUMMER INSTITUTE FOR SECONDARY SCHOOL SCIENCE TEACHERS

The National Science Foundation has awarded Clemson a grant of \$58,900 to support a summer program for science teachers from the secondary schools. Approximately sixty teachers will participate in this program beginning June 24 and ending August 1. The Institute will be under the direction of Dr. J. Harvey Hobson, Professor of Chemistry, who will teach in the program along with Dr. Paul Birkhead, Geology, Dr. J. F. Allen, Chemistry, Dr. H. W. Graben, Physics, and Dr. J. B. Whitney, Jr., Biology.

UNIVERSITY POLICY STATEMENT

The following university policy statement has been adopted relating to demonstrations in connection with college placement activities:

College placement is concerned with those aspects of the student's development which deal with his establishing of an optimum career. In over a half-century of operation on the campus, college placement has come to represent the cooperative efforts of higher education and all types of employers including those from business, education, government, and industry.

The final step in the college placement process is the student's discussion of career interests with representatives of employing firms and agencies. It is important to the integrity of the program that such interviews be conducted on the campus and as a responsibility of the institution.

Several hundred employers from business, education, government, and industry visit college campuses annually to recruit. So great is the demand that interview schedules are usually arranged a year in advance. To disrupt these schedules is to jeopardize the opportunities of countless students whose career decisions are developed in the personal interview.

Recently, small minority groups on a few campuses have obstructed the conducting of interviews by certain organizations for reasons sufficient only to the demonstrators. The result has been the disruption not only of the target interviews but of those being conducted by other employers in the placement office at the same time.

Clemson University recognizes the right of students to dissent; it believes also that the parallel obligation to respect the rights of others must be maintained. Therefore, the University administration will not permit or tolerate any action, conduct or behavior on campus by any person which tends to impede, obstruct or threaten the rights of students for on-campus interviews with prospective employers. Violation of this policy may result in severe institutional penalties or penalties assessed by civil authorities.

MINUTES OF THE FACULTY SENATE

January 16, 1968

The monthly meeting of the Research Faculty Council was called to order at 4:00 P.M. in Room No. 28 of Tillman Hall by Chairman Fox.

The minutes of the November 21, 1967 meeting were approved as circulated.

Members absent were: W. C. Mickelberry, L. O. Drew, M. B. Bishop. E. M. Lander, and J. J. Porter.

Chairman Fox announced the resignation of W. C. Mickelberry and L. O. Drew and indicated that arrangements would be made to elect replacements to fill their unexpired terms.

Chairman Fox announced the establishment of a joint Faculty Club Committee (consisting of R. T. Reep and S. M. Lukawecki, from the Faculty Senate, and A. S. Tombes and S. F. Hulbert, from the Research Faculty Council) which will prepare a proposal for Faculty Facilities in the new University Union.

Chairman Fox asked that each representative canvass the faculty members which they represent as to the amount of difficulty caused to research programs by the closing of the college dormitories during the Christmas recess.

The Policy Committee was asked to prepare a policy statement concerning industrial research contracts.

Mr. John Gentry briefed the Council on matters under consideration by the Personnel Office.

The meeting was adjourned at 5:25 P.M.

Respectfully submitted,

Samuel F. Hulbert
Secretary

SFH:sbw

IM-TS SCHOOL ANNOUNCES 1968 PROFESSIONAL
DEVELOPMENT COURSES

The School of Industrial Management and Textile Science has established its 1968 schedule of Professional Development courses. The 1968 series will be the eleventh for the school. To date there have been 1,062 participants in this program.

Courses to be offered in 1968 are:

May 6-10

- P.D. 96-Color Measurement Seminar
- P.D. 88-Clemson University's (First Annual) Textile Marketing Forum

May 13-18

- P.D. 22-Introduction to Textile Manufacturing

May 13-24

- P.D. 26-Introduction to Yarn Manufacturing
- P.D. 41-Methods Analysis and Time Study
- P.D. 43-Basic Textile Chemistry
- P.D. 47-Quality Control
- P.D. 35-Polymer Chemistry

June 3-7

- P.D. 65-Hospital Executive Development
- P.D. 79-Session 1-Clemson University's Graduate Seminar in Industrial Administration

June 3-14

- P.D. 38-Supervisor Development
- P.D. 56-Weaving: Fabric Design and Development
- P.D. 27-Advanced Yarn Manufacturing
- P.D. 44-Advanced Textile Chemistry

June 10-14

- P.D. 79-Session 2-Clemson University's Graduate Seminar in Industrial Administration

July 15-26

- P.D. 41-Methods Analysis and Time Study (a repeat of May 13-24 course)

July 22-26

- P.D. 96-Color Measurement Seminar

GIFTS AND GRANTS

--Soil Conservation Service, \$8,000 to Agronomy & Soils for pedological studies on South Carolina soils.

--T. J. Lipton, Inc., \$4,000 to Truck Station, Charleston, for studies on tea.

--Olin Mathieson Chemical Company, \$100 to Edisto Station, Blackville, for soybean and peanut seed treatment studies.

PERSONAL MENTION

--J. M. Wannamaker and D. W. Lyons (IM-TS) attended a Faculty-Management Seminar, sponsored by Burlington Industries at Greensboro, N. C., on November 30-December 1.

--J. M. Wannamaker, F. R. Gray, P.R.P. Laithwaite (IM-TS) attended a seminar on "Horizons for a Profession" at the University of South Carolina on December 9. J. M. Wannamaker served as discussion leader for the session on the general education requirements for an accountant.

--R. C. Hubbard, Jr. (Ag.Comm) has been named Chairman of the National Press Committee of the American Association of Agricultural College Editors.

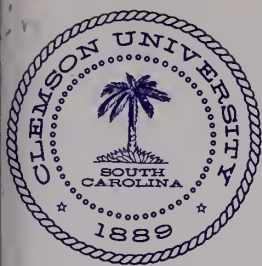
--Hugh H. Macaulay (Econ) had an article on "Old Age Assurance" published in December 1967 for the Joint Economic Committee, Congress, United States, U.S. Government Printing Office.

--The Young Bankers Workshop on Personnel, sponsored by the Young Bankers Division of the South Carolina Bankers Association, was held at the Clemson House, January 10 and 11. W. D. Trevillian and Hugh H. Macaulay, Jr., delivered papers. Charles A. Burden, Thomas H. Gunter, Jr., Cyril O. Shuler, and B. R. Skelton, conducted sessions utilizing the Case Method.

--P. B. Burt (Phys) participated in the Winter Institute for Atomic, Molecular and Solid State Physics sponsored by the NSF, University of Florida, and University of Uppsala (Sweden) and held at Sanibel Island, Jan. 2-9.

--H. W. Graben (Phys) presented a talk on Intermolecular Forces to the Sigma Pi Sigma Club at Davidson College on December 5.

--H. E. Vogel (Phys) and M. M. Garland had a paper entitled "Superconductivity in Thin Indium Films" published in the December issue of the Journal of Applied Physics.



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NEWSLETTER

INFORMATION FOR THE STAFF OF CLEMSON UNIVERSITY

Vol. 7 No. 12

February 15, 1968

CALENDAR: FEBRUARY 15 - FEBRUARY 29, 1968

- | | | |
|---------|-----|---|
| Feb. 15 | Th | Seminar - Botany and Bacteriology Department - 4 pm, 222 Long Hall. Christopher R. Freeman - "Light Absorption and Conversion of Energy." |
| Feb. 15 | Th | Concert - Folk Singer, Odetta, Field House, 8 pm. Odetta replaces the concert scheduled March 7 by the U. S. Navy Band which had to be cancelled. |
| Feb. 16 | F | Basketball - North Carolina at Charlotte, 7:30 pm (North-South Classic) |
| Feb. 17 | Sat | Basketball - N. C. State at Charlotte, 7:30 pm (North-South Classic) |
| Feb. 19 | M | Preliminary reports due. |
| Feb. 19 | M | Graduate Seminar - Agronomy 825, 4 pm - Room A203 P&AS
T. C. Peele - "The Evaporation of Water from Soils." |
| Feb. 20 | T | Research Faculty Council, 28 Tillman Hall |
| Feb. 20 | T | Freshman Basketball - Anderson Junior College at Clemson, 6 pm |
| Feb. 20 | T | Basketball - Duke at Clemson, 8 pm |
| Feb. 22 | Th | Seminar - Botany and Bacteriology Department - 4 pm, 222 Long Hall. H. Furman Cantrell - "Photophosphorilation Associated with Photosynthesis." |
| Feb. 22 | Th | Freshman Basketball - Furman at Greenville |
| Feb. 22 | Th | Basketball - Furman at Greenville |
| Feb. 22 | Th | Concert - American Folk Ballet, Field House, 8 pm |
| Feb. 24 | Sat | Basketball - Maryland at College Park |
| Feb. 24 | Sat | Swimming Meet - Appalachian State Teachers College at Boone |
| Feb. 26 | M | Graduate Seminar - Agronomy 825, 4 pm - Room A203 P&AS
D. A. Addison - "Microbiological Degradation of Selected Pesticides." |
| Feb. 26 | M | Freshman Basketball - Georgia at Athens |
| Feb. 27 | T | Sigma Xi Program - Civil Engineering Auditorium, Dr. N. E. Miller, National Lecturer, will speak on "Learning and Motivating." |

Feb. 27	T	Faculty Senate, 4:15 pm, Olin Hall Auditorium
Feb. 28	W	Freshman Basketball - Georgia Tech at Clemson, 6 pm
Feb. 28	W	Basketball - Georgia Tech at Clemson, 8 pm
Feb. 28- Mar. 1	W-F	Concert Band Tour
Feb. 29	Th	Seminar - School of Industrial Management and Textile Science - 2 pm, Sirrine Auditorium. Mr. Francis A. Townsend, President, Graniteville Company, Graniteville, S. C., will speak on "Challenges of Change."
Feb. 29	Th	Clemson University Chorale Society Concert - Tillman Hall - 8 pm. Carissimi's JEPHTE, an oratorio, and Monteverdi's, LAETATUS SUM, a cantata.
Feb. 29	Th	Seminar - Botany and Bacteriology Department - 4 pm, 222 Long Hall. Mrs. Ellen P. Hellwig - "Measurements of Photosynthesis."
Feb. 29- Mar. 2	Th-Sat	Seminar-Workshop under the joint sponsorship of the Department of Civil Engineering and the South Carolina State Highway Department. Approximately 80 engineers of the South Carolina State Highway Department will participate in this seminar-workshop on "Quality Control and Materials Testing."
Feb. 29- Mar. 2	Th-Sat	Swimming ACC Championships - Chapel Hill, North Carolina
Mar. 1	F	Military Ball - Dining Room
Mar. 1	F	Shakespeare Play, "Much Ado About Nothing," 8 pm, Tillman Hall Auditorium
Mar. 2	Sat	Spring Hop - Dining Hall
Mar. 4	M	Dr. Howard Beers, Chairman, Center for Developmental Change, University of Kentucky, will present a 4 pm seminar and an 8 pm lecture. Seminar subject: Agricultural Colleges and Developing Countries; lecture subject: American Shoulders at Overseas Wheels. Both seminar and lecture will be in the Auditorium of the Plant and Animal Science Building.
Mar. 5	T	Sage Club Dinner Meeting, Clemson House, 6:30 pm
Mar. 5	T	Band Concert - Tillman Hall Auditorium, 8 pm
Mar. 5	T	Religion Lecture - Dr. Lauren Brubaker of the University of South Carolina will speak on the subject: "The Theology of Samuel Becket," 8 pm, Brackett Hall Auditorium.
Mar. 7	Th	Seminar - School of Industrial Management and Textile Science - 2 pm, Sirrine Auditorium. Dr. Hugh C. Lane, Chairman of the Board, The Citizens and Southern National Bank of South Carolina will be the speaker.

Mar. 7 Th Seminar - Botany and Bacteriology Department - 4 pm, 222 Long Hall. Dr. Ann W. Baxter, Asst. Professor, will speak on "Mechanisms of Arginine and Citrulline Transport in Streptococcus faecalis F24"

Mar. 7 Th Woman's Club, Clemson House, 3:45 pm

Mar. 7 Th Graduate Wives Club, YMCA, 8 pm

Mar. 7-9 Th-Sat ACC Basketball Tournament at Charlotte

ALGERNON SYDNEY SULLIVAN AWARD

The Honors and Awards Committee invites all faculty and staff members to submit nominations for the non-student recipient of this year's Sullivan Award, which will be made on Honors and Award Day, April 3, 1968. The award is described on page 86 of the 1967-1968 University catalog.

The nominations should be made by March 1 and sent directly to Dr. C. B. Green, 28 Tillman Hall.

Non-student recipients of the Sullivan Award for the past ten years have been:

1958	A. B. Bryan
1959	Helen Coker
1960	C. C. Bennett
1961	J. D. Lane
1962	B. E. Goodale
1963	R. M. Cooper
1964	F. J. Jervy
1965	C. A. Arrington
1966	Virginia Earle Shanklin
1967	John Robert Roy Cooper

GIFTS IN KIND -- POLICY ON ACCEPTANCE

The following policy on the acceptance of gifts in kind offered to the University has been approved by President Edwards on the recommendation of Executive Officers:

"Acceptance of gifts in kind offered to the University, or its several instrumentalities, may be accepted only by the vice president in charge of the area of the University to which the gift is tendered, or the President of the University. Decision may be requested of the Executive Officers if desired. Acceptances shall be limited to those gifts that are meaningful to the educational purposes, historical significance, or cultural development of the institution. No monetary evaluation of gifts accepted will be made by the University or any of its personnel."

DEVELOPMENT AND SELECTION PROCEDURES FOR CLEMSON UNIVERSITY SCHOLARSHIPS

In order to clarify and coordinate the numerous activities related to Clemson University's expanding program of scholarship aid to undergraduate students the following procedures have been approved by the Educational Council. They are divided into two sections. The first has to do with matters related to our continuing efforts to provide more scholarship aid for Clemson students. The second section establishes minimum uniform standards for selecting scholarship recipients.

I. Development Procedures

Clemson University needs and seeks to encourage the development of as much scholarship aid as possible for its undergraduates. Funds are constantly needed to provide scholarships for worthy students. The University encourages the active assistance of its faculty, staff, alumni, and friends in suggesting the names of potential donors of scholarship funds.

In order that all efforts in this direction may be better coordinated the following procedures are established:

1. The University Honors and Awards Committee after consultation with appropriate University personnel shall prepare a standard scholarship agreement for use between a potential donor and the University.
2. After they have received the approval of the Honors and Awards Committee and the Dean of the College or School concerned, the Committee shall receive all proposed scholarship agreements from faculty, staff, and others responsible for their development and shall send such agreements with their recommendations to the Vice-President for Academic Affairs who shall transmit them to the Vice-President for Business and Finance for his signature.
3. All persons instrumental in the development of scholarships are requested to keep the Chairman of the University Honors and Awards Committee advised of their activities, and under no circumstances is anyone authorized to commit the University to any scholarship agreement -- written or verbal -- prior to formal approval by the proper University authorities.

In seeking funds for scholarships Clemson University recognizes that the wishes and recommendations of the potential donor must be carefully considered. When, however, there is an opportunity for the person representing the University to make appropriate suggestions, or if he is asked what the wishes of the University are, the following guidelines are given:

1. The best scholarship aid is that which is least restricted. The unrestricted scholarship gives the University a flexibility which enables it to meet changing needs and conditions.
2. First preference should be given to University-wide scholarships.
3. Second preference should be given to scholarships restricted to students studying in a particular College or School of the University.
4. Third preference should be given to scholarships restricted to students studying in a particular department or curriculum of the University.

5. Potential donors should be discreetly discouraged, when possible, from restricting their scholarship aid more than by one of the three categories mentioned above.

II. Selection Procedures

In order to establish a uniform policy for awarding Clemson University scholarships the following policies are adopted.

1. All entering freshmen being considered for a scholarship awarded by the University must have a minimum predicted grade-point ratio of 2.0.
2. Students already enrolled in the University who are being considered for a scholarship must have a minimum cumulative grade-point ratio of 2.0.
3. Copies of all contracts between the University and the donors of scholarships shall be kept in the Office of Student Financial Aid.
4. It shall be the responsibility of the University Honors and Awards Committee acting through its Chairman and its Secretary, who for these purposes shall be the Supervisor of Student Financial Aid, to insure that the University is observing the terms of the written contract with the donor of each scholarship. (In those instances in which the contract with the donor needs to be revised, the University Honors and Awards Committee shall recommend to the proper University authorities that a revision be initiated.)
5. The University Honors and Awards Committee shall coordinate the selection of recipients of all Clemson University administered academic scholarships, shall notify the recipient and the donor of each selection, and shall distribute the appropriate scholarship stipends to the respective recipients.
6. All nominations for University awarded scholarships shall be sent to the University Honors and Awards Committee for concurrence. Ordinarily concurrence involves only the assurance that University-wide policies and procedures are being followed. In those instances when the Committee does not concur, the nominations shall be returned to the person or group which initiated them, the reasons for non-concurrence shall be given, and new nominations shall be requested.
7. No person shall be notified that he has been awarded a scholarship from Clemson University before his nomination has been cleared through the University Honors and Awards Committee according to the above procedures.

MINUTES OF THE FACULTY SENATE

December 5, 1967

The Faculty Senate met for a regular monthly session on December 5, 1967, in Olin Hall Auditorium, beginning at 4:17 P.M. President James N. Thurston presided. Business during the meeting consisted mainly of reports by the President and several committee chairmen. In addition, the minutes of the last meeting were considered and approved as circulated.

In his report President Thurston touched on several topics, including April notification of salaries, university housing, a faculty club, and recent appointments. He reviewed his discussion with Dean Hurst concerning salaries and housing. It would not be possible for two reasons, Dean Hurst, said, to notify faculty in April of salaries for the forthcoming year: (1) because of the date of adjournment of the state legislature and (2) because of the need for approval by the university's Board of Trustees and by the Budget and Control Board. The policy on university housing, Dean Hurst stated, is that neither a female faculty member nor a female student who is married qualifies. During his meeting with Dean Hurst President Thurston said the question of the liability of faculty in case of accidents was raised and that the subject of a faculty club was discussed. The forthcoming Student Union building will have space for a faculty club and there still is time to incorporate the faculty's ideas into the plans. In conclusion, President Thurston announced the appointments of D. W. Bradbury to the Traffic and Control Committee, replacing J. D. Antrim who is going on leave, and of R. F. Nowack to a special committee to study library check-out methods. He then recognized D. W. Bradbury who reviewed recent work of the standing Committee on Patents.

The only committee of the Senate having business to report was the Welfare Committee. Chairman J. M. Wannamaker said that Otis Nelson is working on a program of scheduled exercise for the faculty and hopes to have information on it for next semester. The scheduled exercises are to be independent of the YMCA program and will be arranged sometime between the hours of eleven and three.

President Thurston reported that several things had been brought to his attention for study by the Scholarship and Admissions Committee. Among these are (1) the possibility of raising the grade-point requirement for senior standing above the present 1.7 since the requirement for graduation in 1968-69 will be 2.0, (2) the matter of scheduling quizzes and examinations at unauthorized times, (3) the need for clarifying readmissions policies, and (4) the possibility of extending representation on the Faculty Senate to the administration.

After the date for the next session of the Faculty Senate was announced for January 23, 1968, the December meeting was adjourned at 5:05 P.M.

Respectfully submitted,

Rameth Owens (Mrs. Walton H., Jr.)
Secretary

Absent: H. Brantley, R. C. Harshman, A. K. Jensen, Eugene Park, J. E. Pinckney,
T. L. Senn, J. B. Whitney

DEGREES AWARDED IN 1967 BY MAJOR COURSES

Associate Degrees Awarded

College of Arts and Sciences -----	27
Nursing -----	27
Total Associate Degrees Awarded in 1967 -----	27

Bachelors' Degrees Awarded

College of Agriculture and Biological Sciences (Including Double Major)-----	108*
Agricultural Economics -----	16
Agronomy-----	10
Animal Science -----	12
Biology -----	30
Dairy Science -----	4
Entomology -----	2
Food Science * -----	4
Forestry -----	20
Horticulture -----	8
Poultry Science -----	2
School of Architecture -----	25
Architecture -----	21
Building Construction -----	4
College of Arts and Sciences -----	217
Arts and Sciences -----	139
Chemistry -----	8
Geology -----	4
Mathematics -----	17
Medical Technology-----	2
Physics -----	7
Pre-Medicine -----	40
School of Education -----	46
Agricultural Education -----	17
Industrial Education -----	16
Science Teaching -----	7
Secondary Education -----	6
College of Engineering -----	199
Agricultural Engineering -----	4
Ceramic Engineering -----	8
Chemical Engineering -----	32
Civil Engineering -----	31
Electrical Engineering -----	54
Industrial Engineering -----	19
Mechanical Engineering -----	51

* Includes one student who formerly graduated in Animal Science.

Bachelors' Degrees Awarded (Continued)

School of Industrial Management and Textile Science -----	144
Arts and Sciences -----	12
Industrial Management -----	93
Textile Chemistry -----	8
Textile Management -----	28
Textile Science -----	3

Total Bachelors' Degrees Awarded in 1967 (Excluding Duplicates) ----- 738

Masters' Degrees Awarded

College of Agriculture and Biological Sciences -----	27
Agricultural Economics -----	3
Agronomy -----	3
Animal Science -----	1
Dairy Science -----	1
Entomology -----	2
Horticulture -----	5
Nutrition -----	1
Plant Physiology -----	1
Poultry Science -----	2
Zoology -----	8
College of Arts and Sciences -----	20
Chemistry -----	3
Economics -----	1
English -----	4
History -----	1
Mathematics -----	7
Physics -----	4
School of Education -----	8
Agricultural Education -----	1
Education -----	6
Industrial Education -----	1
College of Engineering -----	34
Agricultural Engineering -----	3
Ceramic Engineering -----	7
Chemical Engineering -----	3
Civil Engineering -----	8
Electrical Engineering -----	4
Engineering Mechanics -----	1
Environmental Systems Engineering -----	2
Mechanical Engineering -----	6
School of Industrial Management and Textile Science -----	5
Industrial Management -----	3
Textile Chemistry -----	2

Total Masters' Degrees Awarded in 1967 ----- 94

Doctors' Degrees Awarded

College of Agriculture and Biological Sciences -----	6
Agricultural Economics -----	1
Agronomy -----	2
Entomology -----	3
College of Arts and Sciences -----	11
Chemical Physics -----	1
Chemistry -----	4
Mathematics -----	1
Physics -----	5
College of Engineering -----	5
Chemical Engineering -----	1
Civil Engineering -----	1
Electrical Engineering -----	1
Mechanical Engineering -----	2
Total Doctors' Degrees Awarded in 1967 -----	<u>22</u>
Total Number Degrees Awarded in 1967 (Excluding Duplicates) -----	881
Total Number Degrees Awarded in 1966 (Excluding Duplicates) -----	769

HONORS AND AWARDS DAY SCHEDULE

A revised schedule for Honors and Awards Day, April 3, 1968, has been adopted. The new schedule places increased emphasis on the individual College and School programs and eliminates the University Convocation. The university academic and non-academic awards, which heretofore have been presented at the University Convocation, will now be made at a luncheon for these award winners and other invited guests.

The President's Reception for all students being honored and their parents will follow the Awards Programs in the Colleges and Schools and will permit out-of-town guests to leave the campus at an earlier hour in the afternoon than formerly.

The Joint Army-Air Force Awards program on Bowman Field has been scheduled at the same time as in past years.

The revised schedule is as follows:

All classes suspended-----	12 noon
Awards Programs by Colleges and Schools-----	2:00-3:00
Reception at President's Home-----	3:15-4:15
Joint Army-Air Force Awards-----	4:30-5:15

Enrollment by Courses and Academic Classification
Clemson University
Second Semester 1967-1968

Major Course	Freshman (Semester)		Sophomore (Semester)		Junior (Semester)		Senior (Semester)		Total
	1st	2nd	1st	2nd	1st	2nd	1st	2nd	
Agriculture	2	1	0	1	0	0	0	0	4
Agricultural Economics	9	6	10	6	10	10	4	11	66
Agricultural Engineering	10	5	11	3	3	6	0	2	40
Agronomy	5	3	7	8	2	7	2	7	41
Animal Science	3	2	9	5	5	8	5	12	49
Biology	24	16	21	34	19	33	16	22	185
Dairy Science	3	1	0	3	6	1	0	4	18
Entomology	1	0	1	0	1	1	0	1	5
Food Science	5	2	1	4	0	1	2	1	16
Forestry	18	29	9	16	7	7	6	24	116
Horticulture	5	6	3	2	8	4	6	5	39
Poultry Science	3	0	1	3	2	2	1	1	13
Pre-Veterinary	17	19	11	4	5	2	1	0	59
Sub-Total	105	90	84	89	68	82	43	90	651
Architecture	6	8	18	33	17	27	27(a)	51(b)	187
Building Construction	17	4	7	6	13	13	9(c)	14(d)	83
Pre-Architecture	24	33	3	3	3	0	2	2	70
Sub-Total	47	45	28	42	33	40	38	67	340
Arts and Sciences	113	86	98	91	75	66	39	72	640
Chemistry	5	17	3	6	6	11	3	5	56
Geology	0	2	3	5	6	4	3	3	26
Mathematics	29	26	12	20	11	26	9	15	148
Medical Technology	7	9	1	3	4	1	1	0	26
Nursing	0	28	1	20	3	1	0	0	53
Physics	15	3	3	5	1	8	1	6	42
Pre-Medicine	50	68	21	49	22	32	20	36	298
Pre-Pharmacy	11	3	2	3	0	1	1	0	21
Sub-Total	230	242	144	202	128	150	77	137	1310
Agricultural Education	22	7	8	4	13	10	6	13	83
Elementary Education	18	19	8	11	22	14	2	7	101
Industrial Education	17	3	21	7	20	10	17	10	105
Recreation & Park Adm.	53	24	45	24	67	22	25	13	273
Secondary Education	38	17	19	12	18	19	13	8	144
Science Teaching	4	1	6	5	11	7	7	9	50
Sub-Total	152	71	107	63	151	82	70	60	756
Engineering	46	6	0	0	0	0	0	0	52
Ceramic Engineering	14	2	7	9	4	12	4	15	67
Chemical Engineering	49	12	9	35	10	25	9	21	170
Civil Engineering	63	22	28	32	30	39	13	39	266
Electrical Engineering	88	17	20	39	20	38	18	41	281
Industrial Engineering	0	0	0	1	5	2	3	10	21
Mechanical Engineering	75	20	29	41	20	17	19	31	252
Metallurgical Engineering	4	0	2	3	1	6	0	4	20
Sub-Total	339	79	95	160	90	139	66	161	1129
Economics	39	16	36	13	57	27	33	32	253
Industrial Management	60	51	50	71	61	75	49	69	486
Textile Chemistry	6	2	2	1	1	3	2	3	20
Textile Management	0	0	0	1	0	1	2	2	6
Textiles	25	5	13	7	3	6	7	9	75
Textile Science	0	0	0	0	0	0	0	1	1
Sub-Total	130	74	101	93	122	112	93	116	841
Total	1003	601	559	649	592	605	387	631	5027
					Part Time		Full Time		
Graduates - Master's Level					197		237		434
Graduates - Ph.D. Level					83		93		176
Postgraduates					21		8		29
Non-Degree Students					14		6		20
Total					315		344		659
Grand Total									5686
Greenville Center									220
Sumter Center									151
Overall Total									6057

- (a) Includes eight who are in the first semester of the fifth year.
 (b) Includes twenty-six who are in the second semester of the fifth year.
 (c) Includes one who is in the first semester of the fifth year.
 (d) Includes ten who are in the second semester of the fifth year.

CLEMSON UNIVERSITY

ADMISSIONS AND REGISTRATION

Enrollment by Men and Women - Full Time and Part Time

Second Semester 1967-1968

Classification	Men			Women			Total		
	Full Time	Part Time	Total	Full Time	Part Time	Total	Full Time	Part Time	Total
1st Sem. Freshman	906	3	909	92	2	94	998	5	1003
2nd Sem. Freshman	466	3	469	132	0	132	598	3	601
Sub-Total	1372	6	1378	224	2	226	1596	8	1604
1st Sem. Sophomore	505	0	505	52	2	54	557	2	559
2nd Sem. Sophomore	561	3	564	83	2	85	644	5	649
Sub-Total	1066	3	1069	135	4	139	1201	7	1208
1st Sem. Junior	513	5	518	70	4	74	583	9	592
2nd Sem. Junior	539	4	543	57	5	62	596	9	605
Sub-Total	1052	9	1061	127	9	136	1179	18	1197
1st Sem. Senior	348	2	350	28	0	28	376	2	378
2nd Sem. Senior	555	11	566	28	6	34	583	17	600
Sub-Total	903	13	916	56	6	62	959	19	978
1st Sem. Fifth Year	9	0	9	0	0	0	9	0	9
2nd Sem. Fifth Year	30	1	31	0	0	0	30	1	31
Sub-Total	39	1	40	0	0	0	39	1	40
Total	4432	32	4464	542	21	563	4974	53	5027
Graduate - Master's Level	203	136	339	34	61	95	237	197	434
Graduate - Ph. D. Level	90	79	169	3	4	7	93	83	176
Postgraduates	7	13	20	1	8	9	8	21	29
Non-Degree Students	2	4	6	4	10	14	6	14	20
Total	302	232	534	42	83	125	344	315	659
Grand Total	4734	264	4998	584	104	688	5318	368	5686
Greenville Center	170	11	181	34	5	39	204	16	220
Sumter Center	111	6	117	28	6	34	139	12	151
Overall Total	5015	281	5296	646	115	761	5661	396	6057

NDEA SUMMER INSTITUTE IN INDUSTRIAL EDUCATION

The Department of Industrial Education at Clemson University, in cooperation with the United States Office of Education, will host its second advanced institute for 25 industrial arts teachers from June 24 through August 2, 1968. Participants for the institute will be drawn from the ten Southeastern states.

The Clemson institute, one of 33 such programs to be conducted nationally this summer, is supported by a \$33,000.00 grant under the National Defense Education Act.

The program, through a series of lectures, seminars, and demonstrations by outstanding consultants and Clemson faculty members, will emphasize the development of an industrial arts philosophy for each participant; stress new instructional aids, such as television teaching and programmed instruction; explore contemporary curriculum patterns, and curriculum development and planning techniques. The institute is under the direction of Dr. Alfred Newton. Dr. Marshall Hahn of the Department of Industrial Education will act as Associate Director. Guest lecturers will include Dr. George McCune, Professor, University of Minnesota; Dr. Paul B. Wood, Clinical Psychologist, Central Wesleyan College; Dr. Willis Ray, Professor, Ohio State University; Dr. Gene Flug, Director of American Industries Project, Stout State University, Menomonie, Wisconsin; Dr. Paul W. DeVore, Professor, West Virginia University; Dr. Delmar W. Olson, Professor, North Carolina State University; Dr. George E. Bair, Director, Educational Television for South Carolina; Dr. Harry Durham, Director of University Communications, Clemson; Dr. Arthur K. Jensen, Director, Vocational Education Media Center, Clemson.

Dr. Newton, Dr. Hahn, and Mr. Morgan of the staff of Industrial Education will also teach in the institute and serve as consultants for individual curriculum and teaching experiments by the participants.

GIFTS AND GRANTS

--National Association of Animal Breeders, Columbia, Missouri, \$500 to Dairy Science to support research to be conducted involving estrus synchronization in dairy cattle.

--NASA has awarded an additional supplement to Dr. J. C. Martin (EE) to continue his research entitled, "Investigation of the Use of Stellar References for Automatic Orientation of Theodolite Platforms." This supplement extends Dr. Martin's project for an additional year beginning January 1, 1968, and the total funded for this year is \$26,702 bringing the total value of this grant to \$69,572.

--Public Health Service has awarded a grant of \$20,303 to Dr. Henry R. Bungay (ESE) to perform research entitled, "Growth in Mixed Cultures of Microorganisms." This grant will continue for one calendar year.

--Dow Chemical Company to the Chemical Engineering Department, a grant of \$1,000.

--E. I. DuPont de Nemours & Company to the Chemical Engineering Department, a grant of \$2,500.

PERSONAL MENTION

--John Kenelly (Math) attended the meeting of the American Mathematical Society in San Francisco, January 23-27, and presented a paper entitled, "An Upper Bound on the Dimension of the Convex Kernel," co-authored with B. D. Evand of Oklahoma State University.

--John J. Porter (IM-TS) was guest speaker at the Southeastern Sectional meeting of the American Association for Textile Chemists and Colorists, Atlanta, Georgia, January 20. Dr. Porter presented a paper on "Continuous Dyeing and Finishing of Cotton and Cotton Blended Fabrics with Acid and Direct Dyestuffs."

--Pamela S. Opliger (AgChem Serv) has published a paper, "Methods for Estimating Oxygen Demand of Liquid Peach Waste," in the November-December issue of Journal of Food Science.

--J. L. Arbena (Hist) has published, "The Image of an American Imperialist: Colombian Views of Theodore Roosevelt," in West Georgia College, Studies in the Social Sciences (June, 1967).

--J. L. Arbena (Hist) has been selected as a Fellow in the Cooperative Program in International Studies for the Summer Institute of 1968 on Latin America at the University of North Carolina at Chapel Hill, June 17-August 10.

--T. A. Campbell, Jr. (IM-TS) presented a lecture to a group of International Business Students at North Carolina State University, School of Textiles, on "Textile Costs and Cost Control," January 25.

--T. R. Adkins, Jr. (Ent) presented a talk as an invited speaker on "Insect Control for Stocker Cattle" at the Beef Cattle Short Course, Auburn University, Auburn, Alabama, on January 11.

--L. L. Byrd (Educ) and Barbara W. Morgan (Educ) have completed ETV tapes on the Teaching of Reading to be shown for the first time this February on Channel 29. Dr. Byrd's subject is "Individualized Reading." Mrs. Morgan lectures on "Standardized Tests" and "The Retarded Reader in the Classroom." These programs are part of a reading course for hundreds of South Carolina teachers.

--S. F. Hulbert (CrE) presented a paper entitled "Materials of Construction for Surgical Implants" at the Annual Joint Meeting of the South Carolina Engineering Society and the South Carolina Chapter of the American Society of Civil Engineers in Columbia, January 12.

--S. F. Hulbert (CrE) had a paper entitled, "Effect of Processing Parameters on the Kinetics of Decomposition of Magnesium Sulphate," published in the latest issue of Materials Science and Engineering.

--J. G. Goree (EM) published a paper entitled, "Axisymmetric Contact Stresses About a Smooth Elastic Sphere in an Infinite Solid Stressed Uniformly at Infinity," in the Journal of Applied Mechanics, Vol. 34, No. 4, December 1967, pp. 960-966. This paper was presented at the Winter Annual Meeting of the A.S.M.E., Pittsburgh, Pa., Nov. 16, 1967.

--R. C. Harshman (ChE) directed a one-day seminar on Engineering Application of Digital Computers for local industrial people on January 26. J. C. Mullins (ChE) and D. F. Bruley (ChE) assisted and presented papers.

--W. E. Castro (EM) and W. Squire had a paper published in Applied Scientific Research, Vol. 18, pp. 81-96. The title of the paper is, "The Effect of Polymer Additives on Transition in Pipe Flow."

--W. E. Castro (EM) attended a short course on Turbulence Measurement in Liquids at the University of Missouri, Rolla, Missouri, January 22-26.

--E. M. Lander (SocSci) spoke on "Some Impressions of India by the Fulbright Lecturer" at the luncheon portion of the Chemical Engineering Seminar "Engineering Applications of Digital Computing." Dr. Lander was a Fulbright Lecturer at Jadavpur University in Calcutta, India, September 1966-May 1967.

--G. C. Packard (Ent) presented a Seminar before the Department of Zoology at Colorado State University, Fort Collins, Colorado, February 1.

--R. C. Fox (Ent) was elected President of the South Carolina Entomological Society for the year 1968; Dr. S. G. Turnipseed, Vice-President; Dr. T. R. Adkins, Jr., was re-elected Secretary-Treasurer; and Mr. Don C. Weeks was re-elected Historian.

The following presented papers at the meetings of the S. C. Entomological Society at Charleston, January 29-February 1, 1968.

Dr. J. A. DuRant from the Pee Dee Station presented a paper entitled, "Leafhopper Populations on Ten Corn Inbred Lines at Florence, South Carolina,"

Mr. Chester D. Gordon, formerly Entomology Assistant, S. C. State Crop Pest Commission and now with the Tennessee Department of Agriculture, presented a paper, "Survey for Known Corn Stunt Vectors and Potential Vectors in Northwestern South Carolina." Dr. J. K. Reed was co-author with Mr. Gordon on this paper.

Grady M. Amerson, Graduate Research Assistant, presented a paper, "A Comparison of the Effects of Four Chemosterilants on Reproduction of the Tobacco Hornworm."

A. W. Johnson, Graduate Research Assistant, presented a paper, "Mating Behavior of the Plum Curculio, Conotrachelus nenuphar (Herbst)." This paper was co-authored by Dr. Sidney B. Hays.

Dr. A. S. Tombes (Ent & Zool) presented a paper, "Diapause in the Plum Curculio, Conotrachelus nenuphar." Dr. Sidney B. Hays was co-author.

Dr. S. G. Turnipseed (Edisto Sta) presented a paper entitled, "Further Studies on Foliage Loss and Yield of Soybeans," and also a paper entitled, "Insect Populations on Soybean Isolines."

Harry M. Langley, Graduate Research Assistant, presented a paper on "The Physiology of Diapause in the Alfalfa Weevil, Hypera postica (Gyllenhal)."

D. M. Gaydon, Graduate Research Assistant, presented a paper, "Effect of Cultivation on Emergence of the Eye Gnat, Hippelates sp." Dr. T. R. Adkins was co-author of this paper.

Dr. T. R. Adkins, Jr. (Ent & Zool) presented a paper on "Recent Developments in Horn Fly Control" during the Symposium on Livestock Insects.

Mr. W. C. Nettles, Leader, Extension Entomology and Plant Disease Work, showed selected slides from The National Color Photo Project.

Jane A. Wilson, Graduate Research Assistant, presented a paper, "The Effect of 2 Chemosterilants on Behavior and Histology of Certain Tissues in Musca domestica." Dr. S. B. Hays was co-author of this paper.

Dr. Sidney B. Hays (Ent & Zool) presented a paper, "Effects of N-methyl-p, Bis (1-Aziridinyl) Phosphinic Amide and P,P,Bis (1-Aziridinyl)-N-(3-Methyl Propyl) Phosphinothioic Amide on Reproduction in Musca domestica."

Richard F. Nash, Graduate Research Assistant, presented a paper, "Field Control of the Nantucket Pine Tip Moth, Rhyacionia frustrana (Comstock) with DD-136 (Neoaplectana sp.)." Dr. Richard C. Fox was co-author on this paper.

C. E. Poindexter, NDEA Research Fellow, presented a paper, "Dust Bags for Control of the Face Fly, Musca autumnalis DeGeer and the Horn Fly, Haematobia irritans (L.)." Dr. T. R. Adkins, Jr., was co-author on this paper.

--B. R. Skelton (Econ) read a paper entitled, "The Structure of the Economy of the Piedmont Crescent," at a conference on Growth Prospects in the Piedmont Crescent on November 7-9, 1967 at Charlotte College, Charlotte, N. C. The conference was sponsored by the Agricultural Policy Institute, N. C. State University. The paper will be published in the proceedings of the conference.

--B. R. Skelton (Econ) participated in a conference in Columbia, South Carolina on Emerging Issues in Employment Legislation on January 29. This conference was sponsored by the College of Business Administration, University of South Carolina in cooperation with the U. S. Department of Labor, the South Carolina Department of Labor, and the South Carolina Committee on Children and Youth.



CLEMSON NEWSLETTER

INFORMATION FOR THE STAFF OF CLEMSON UNIVERSITY

Vol. 7 No. 13

March 1, 1968

CALENDAR: MARCH 1 - MARCH 15, 1968

- Feb. 29-
Mar. 2 Th-Sat Seminar-Workshop under the joint sponsorship of the Department of Civil Engineering and the South Carolina State Highway Department. Approximately 80 engineers of the South Carolina State Highway Department will participate in this seminar-workshop on "Quality Control and Materials Testing."
- Feb. 29-
Mar. 2 Th-Sat Swimming ACC Championships - Chapel Hill, North Carolina
- Mar. 1 F Military Ball - Dining Room
- Mar. 1 F NATIONAL PLAYERS - "Much Ado About Nothing," 8 pm, Tillman Hall Auditorium.
- Mar. 2 Sat Spring Hop - Dining Hall
- Mar. 4 M The quarterly meeting of the Southeastern Section of the Simulation Councils Incorporated at 9 am, Purple Room of the Clemson House. Four technical papers in the area of Computer Simulation will be presented. A luncheon will be held in the Blue Room. Dr. Lyle C. Wilcox, Head, Department of Electrical Engineering, is the seminar moderator.
- Mar. 4 M Dr. Howard Beers, Chairman, Center for Developmental Change, University of Kentucky, will present a 4 pm seminar and an 8 pm lecture. Seminar subject: Agricultural Colleges and Developing Countries; lecture subject: American Shoulders at Overseas Wheels. Both seminar and lecture will be in the Auditorium of the Plant and Animal Science Building.
- Mar. 4 M FOREIGN LANGUAGE FILM SERIES - Civil Engineering Aud., 7 & 9 pm. "The Testament of Orpheus" (French) 1960
Written and directed by Jean Cocteau
In his swan song, the French poet, artist, and philosopher offers an original, completely personal film.
- Mar. 5 T Election of Student Body Officers
- Mar. 5 T Band Concert - Tillman Hall Auditorium, 8 pm
- Mar. 5 T Sage Club Dinner Meeting, Clemson House, 6:30 pm. Mr. Peter R. P. Laithwaite, Instructor of Industrial Management and a native of England, will present a travelogue on Rhodesia.

Mar. 5	T	Religion Lecture - Dr. Lauren Brubaker of the University of South Carolina will speak on the subject: "The Theology of Samuel Becket," 8 pm, Brackett Hall Auditorium.
Mar. 7	Th	Seminar - School of Industrial Management and Textile Science- 2 pm, Sirrine Auditorium. Dr. Hugh C. Lane, Chairman of the Board, The Citizens and Southern National Bank of South Carolina, will be the speaker.
Mar. 7	Th	Seminar - Botany and Bacteriology Department - 4 pm, 222 Long Hall. Dr. Ann W. Baxter, Asst. Professor, will speak on " <u>Mechanisms of Arginine and Citrulline Transport in Streptococcus faecalis F24</u> "
Mar. 7	Th	Woman's Club, Clemson House, 3:45 pm
Mar. 7	Th	Chemistry Lecture - Dr. E. C. Toren, Duke University, will lecture on "Trace Determination of Metal Ions <u>via</u> Enzyme Inhibition," Room 131, Brackett Hall, 4 pm.
Mar. 7	Th	Graduate Wives Club, YMCA, 8 pm
Mar. 7-9	Th-Sat	ACC Basketball Tournament at Charlotte
Mar. 9	Sat	Spring holidays begin at noon and classes resume 3/18/68
Mar. 11-13	M-W	Baseball - Clemson at Mississippi State
Mar. 14-16	Th-Sat	Baseball - Clemson at Ole Miss.
Mar. 16	Sat	Track - Clemson at Furman
Mar. 17	Sun	St. Patrick's Day
Mar. 18	M	Special Lecture - "Some Philosophies of Art," a dialogue by Dr. Peter A. Carmichael, former Professor of Philosophy at Louisiana State University and Dr. Albert E. Tibbs, Professor of Philosophy at Furman University - Rudolph E. Lee Gallery, 8 pm. A reception will follow with faculty and students invited. The lecture is sponsored jointly by the Department of Social Sciences and the School of Architecture.
Mar. 18	M	FOREIGN LANGUAGE FILM SERIES - Civil Engineering Aud., 7 & 9 pm. "The Man Who Walked Through The Wall" (German) 1964. A pleasingly diverting escapade utilizing the fine comedy talents of Heinz Ruhman (Captain from Koepenick, The Good Soldier Schweik)
Mar. 18	M	Classes resume
Mar. 18	M	Golf - N. C. State at Clemson

Mar. 18	M	Graduate Seminar - Agronomy 825, 4 pm - Room A203 P&AS Mr. Dalton E. Gandy, Cotton Production Specialist, National Cottonseed Products Association, "Opportunities from Glandless Cotton." One of the opportunities is to make synthetic pork chops, lamb chops, chicken and ham- burger from cottonseed.
Mar. 19	T	Research Faculty Council, 4 pm, 28 Tillman Hall
Mar. 19	T	Continuing Education Classes begin.
Mar. 19-20	T-W	Baseball - Ohio at Clemson
Mar. 20	W	Track - Wake Forest at Clemson
Mar. 20-22	W-F	Board of Visitors

DR. GERALDINE LABECKI NAMED DEAN OF THE SCHOOL OF NURSING

Dr. Geraldine Labecki, Assistant Dean of Nursing at Vanderbilt University, has been named Dean of the School of Nursing and Professor of Nursing Education.

Dr. Labecki, who will assume her duties on August 15, is a native of Brooklyn, New York. She received her B.S. and A.M. degrees from Columbia University and her Ed.D. from George Peabody.

Dr. Labecki has served the nursing profession since 1936. Among her many duties she has served as Assistant Head Nurse at the Hartford, (Conn.) Municipal Hospital, (1941-42); Director of the School of Nursing and Nursing Service, Mary Fletcher Hospital, Burlington, Vermont, 1948-56; Associate Professor, Vanderbilt University School of Nursing 1956-63, and Assistant Dean from 1965 to the present time.

In addition to these various duties, Dr. Labecki is a member of the American Nurses Association, the National League for Nursing, the American Association of University Women, the League of Women Voters, and the Southern Historical Society. She also has served as president of the Vermont League for Nursing, (1952-56), and as president of the Tennessee League for Nursing, (1958-62).

At Vanderbilt, Dr. Labecki has been chairman of the Curriculum Committee for the School of Nursing for the past twelve years. She has been Marshal for the School of Nursing since 1965, and was a member of the University Senate.

In regard to honorary societies, Dr. Labecki is a member of Sigma Theta Tau, honor society in nursing; Delta Kappa Gamma, international honor society for women in education, and Gamma Phi Beta.

GIFTS AND GRANTS

- Abbott Labs, Inc., \$500 to Horticulture for agricultural chemical studies.
- USDA, Cooperative State Research Service, \$27,000 to the S. C. Experiment Station for construction of a Poultry Environmental Building.
- USDA, Cooperative State Research Service, \$60,000 to Agricultural Engineering for a research project involving systems analysis for production of quality cottonseed to be conducted by Dr. T. H. Garner. (This amount is for a three-year period.)
- Elanco Products Co., Division of Eli Lilly, \$500 to Sandhill Station, Columbia, S. C., for studies to improve shelf life of peaches.
- National Association of Animal Breeders, \$500 to Dairy Science for studies involving estrus synchronization in dairy cattle.
- E. I. duPont de Nemours and Company, \$2,500 grant to the Department of Chemistry and Geology.
- Atomic Energy Commission, a matching-funds grant of \$22,794 to Dr. J. F. Allen (Chem) for the purchase of equipment for teaching in nuclear science.
- National Science Foundation, \$39,000 to Dr. R. D. Hatcher, Jr., and Dr. V. S. Griffin, Jr., (Geol) for support of research entitled, "Structure, Petrology and Stratigraphy of the Inner Piedmont, Brevard and Blue Ridge in South Carolina."
- Public Health Service, \$54,291 grant to S. F. Hulbert (CrE) and Clifford C. Fain (CrE) for the first calendar year of a research program entitled "Design of a Water Disposable Packaging Container."
- Kennecott Copper Corporation, Salt Lake City, Utah, \$4,804 research contract to T. L. Drake, (EE) to perform research entitled "Digital Computer Techniques for IP Exploration." The contract is for four and one-half months.
- Stauffer Chemical Company, \$500 to Entomology and Zoology, for research on cotton insects.
- Dow Chemical Company, styrofoam valued at \$866 to Poultry Science, for use with environment for turkeys studies.
- Schering Corporation, \$3,000 to Poultry Science, for evaluation of Lipamone in broilers.
- American Metal Climax, Inc., \$400 to Horticulture, a gift for horticultural fertilization studies.
- Hoffman-LaRoche, Inc., \$1,500 to Poultry Science, for fowl cholera research.
- Cooperative State Research Service, USDA, \$19,402 to the S.C. Agricultural Experiment Station for construction of a Turkey Center which will consist of a Turkey Tom Building and a Turkey Nutrition Building.

--Southern Pulpwood Association, through its branch of Hardwood Forestry Research Fellowship Program, \$3,000 grant to Department of Forestry for a graduate assistantship. This grant was awarded in response to the proposal prepared by W. H. D. McGregor and entitled "X-Ray Analysis of Increment Cores from Hardwood Species."

PERSONAL MENTION

--T. L. Senn (Hort) received the coveted L. M. Ware Distinguished Teaching Award at the Southern Regional Meeting of the American Society for Horticultural Science at Louisville, Kentucky, February 6. This award is presented annually to an outstanding teacher in Horticulture in fourteen states of the Southern Region.

--M. J. Skove and E. P. Stillwell (Phys) presented a paper on the "Oscillatory Piezoresistance of Zinc" at the American Physical Society meeting in Chicago on January 29.

--D. P. Miller (Phys) presented a paper on "The Crystal and Molecular Structure of Telluracyclohexane 3,5 dione" at the winter meeting of the American Crystallographic Association in Tucson, Arizona on February 6.

--Harlan E. McClure (Arch) has been appointed a member of the Education Committee of the American Institute of Architects.

--Anders J. Kaufmann (Arch) has been appointed a corresponding member of the Committee on Research for Architecture of the American Institute of Architects.

--G. C. Robinson (CrE) presented a talk on "New Frontiers in Ceramic Research" to the LCA Research Club, a RESA Branch of Sigma Xi in Gastonia, N. C., Feb. 8.

--T. C. Hardin (ME) attended a National Science Foundation Panel meeting to evaluate proposals to the Instructional Scientific Equipment Program in Atlanta, February 22-23.

--J. T. Long (EE) was elected Vice-Chairman for 1968 of the South Carolina Section of the Institute of Electrical and Electronics Engineers at the State Meeting at Clemson.

--J. N. Thurston (EE) represented Clemson University at an Education-Industry Seminar sponsored by Western Electric at Burlington, N. C., January 24-26.

--A. O. Bishop, Jr. (EE) presented a paper entitled "A Hybrid Computer System Employing the PDP-8/TR-48 Used to Study the Stimulus Response of a Biological System" at the Winter Joint Meeting of the Southeastern and Midwestern Sections of Simulation Councils, Inc. in Miami, Florida, January 15. B. E. Gilliland (EE) attended the meeting as a delegate to the Southeastern Simulation Council Steering Committee.

--J. T. Ligon (AgE) presented a paper entitled "Tobacco Yields in Kentucky and South Carolina as Affected by Weather and Technology" at the meeting of the Southeast Region of ASAE at Louisville, Kentucky, February 5-7.

PERSONAL MENTION (Cont'd)

--E. B. Rogers, Jr. (AgE) presented a paper entitled "Determining Input Requirements for Vegetable Canning and Freezing" at the meeting of the Southeast Region of ASAE at Louisville, Kentucky, February 5-7.

--R. B. Harris (Phil) was elected Vice President of the South Carolina Society for Philosophy at its meeting on February 9 at Furman University, Greenville.

--L. L. Byrd (Ed) served on the Southern Assoc. Accreditation Committee visiting the League Junior High School, Greenville, Feb. 5-8. Dr. Byrd also served on a panel concerning "Industrial Participation and Innovations in Education" at the annual meeting of the S. C. Association for Supervision and Curriculum Development, Columbia, January 25.

--John T. Aeorn (Arch) received one of the awards of merit in the 14th Annual Drawing and Sculpture Exhibit, Ball State University, Indiana, on February 16. The sculpture, Warrior I, was selected by Bartlett H. Hayes, Jr., Director of the Addison Gallery of American Art, Phillips Academy, Andover, Massachusetts.



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CLEMSON

NEWSLETTER

INFORMATION FOR THE STAFF OF CLEMSON UNIVERSITY

Vol. 7 No. 14

March 15, 1968

CALENDAR: MARCH 15 - MARCH 31, 1968

Mar. 14-16	Th-Sat	Baseball - Clemson at Ole Miss.
Mar. 16	Sat	Track - Clemson at Furman
Mar. 17	Sun	St. Patrick's Day
Mar. 18	M	Special Lecture - "Some Philosophies of Art," a dialogue by Dr. Peter A. Carmichael, former Professor of Philosophy at Louisiana State University and Dr. Albert E. Tibbs, Professor of Philosophy at Furman University. The lecture will be at 8 p.m. in the Architecture Auditorium and the reception which follows will be in the Rudolph E. Lee Gallery. This lecture is sponsored jointly by the Department of Social Sciences and the School of Architecture.
Mar. 18	M	FOREIGN LANGUAGE FILM SERIES - Civil Engineering Auditorium, 7 & 9 p.m. "The Man Who Walked Through The Wall" (German) 1964. A pleasingly diverting escapade utilizing the fine comedy talents of Heinz Ruhman (Captain from Koepenick, The Good Soldier Schweik)
Mar. 18	M	Classes resume
Mar. 18	M	Golf - N. C. State at Clemson
Mar. 18	M	Greek Week
Mar. 20-22	W-F	Board of Visitors
Mar. 21	Th	Chemistry Lecture - Dr. Raymond L. Schmidt, Emory University, will lecture on "Thermodynamics of Binary Liquid Mixtures by Rayleigh Light Scattering," Room 131, Brackett Hall, 4 p.m.
Mar. 21	Th	Seminar - School of Industrial Management and Textile Science- 2 p.m., Sirrine Auditorium. Mr. Eugene D. Cogburn, President, Dan River Sales Division, Dan River Mills, Inc., will speak on "Dissatisfaction: Incentive for Action."
Mar. 21	Th	Seminar - Botany and Bacteriology Department - 4 p.m., Room 222 Long Hall. Mrs. Patricia Click will speak on "Interaction between Photosynthesis and Respiration (including similarities)."
Mar. 22	F	Baseball - Virginia Tech at Clemson

Mar. 23	Sat	Foreign Language Examinations
Mar. 23	Sat	Track - Clemson at University of North Carolina
Mar. 23	Sat	Tennis - Wake Forest at Clemson
Mar. 23	Sat	Baseball - Virginia Tech at Clemson
Mar. 25	M	Graduate Seminar - Agronomy 825, 4 p.m. - Room A203 P&AS. B. C. Morton - "The Relationship Between Silicon Content of Plants and Their Digestibility."
Mar. 25	M	Golf - Clemson at the University of South Carolina
Mar. 26	T	Continuing Education Classes
Mar. 26	T	Faculty Senate - 4:15 p.m., Auditorium of Olin Hall
Mar. 27	W	Alpha Zeta Banquet - 7:30 p.m., El Dorado Restaurant, Anderson. The speaker will be Dr. J. Clyde Driggers, High Censor of Alpha Zeta and President of Abraham Baldwin College, Tifton, Georgia.
Mar. 28	Th	Seminar - Botany and Bacteriology Department - 4 p.m., 222 Long Hall. Mrs. Neina W. Thompson will speak on "Photosynthesis in Diseased Plants (Biological)."
Mar. 28-29	Th-F	Conference on "Hydrology in Water Resources Management" sponsored by the Clemson University Council on Hydrology. The program includes nine papers and a panel discussion on various aspects of hydrology as they relate to the use and management of our water supplies. Also features will be banquet and luncheon speakers and a post-conference tour of the Keowee-Toxaway Project of the Duke Power Com- pany. Detailed information may be obtained from Dr. A. G. Law (EM) or Dr. F. C. Alley (ChE).
Mar. 29	F	Clemson University Glee Clubs' Concert, 8 p.m., Tillman Hall Auditorium.
Mar. 29	F	Baseball - University of Virginia at Clemson.
Mar. 30	Sat	Track - Florida Relays at Gainesville, Florida
Mar. 30	Sat	Tennis - University of South Carolina at Clemson
Mar. 30	Sat	Baseball - Springfield College at Clemson
Apr. 1	M	Last day to withdraw without having grades recorded
Apr. 1	M	Last day to drop a subject
April 1	M	FOREIGN LANGUAGE FILM SERIES - Civil Engineering Audi- torium, 7 & 9 p.m. "Banana Peel" (French) 1965 With Jeanne Moreau, Jean-Paul Belmondo, Gert Frobe (Goldfinger) A romantic suspense comedy.

Apr. 1	M	Agronomy 825 - Book Reviews of Soil Science Texts: 4 p.m., Room A203 P&AS. Tom Bishop - "Organic Soils" - David & Lucas John Bozard - "Introductory Soils" - Burger Robert Gambrell - "Soil Fertility and Fertilizers - Tisdale & Nelson Shay Hane - "Soil Conditions and Plant Growth" - Russell
Apr. 2	T	Sage Club Dinner Meeting, 6:30 p.m., Clemson House
Apr. 2	T	Continuing Education Classes
Apr. 3	W	HONORS AND AWARDS DAY - Classes suspended at 12 noon
Apr. 3	W	Dr. W. Wright Bryan, Vice-President, Development, Clemson University, will speak at the School of Industrial Management and Textile Science Honors and Awards Day Convocation, 2 p.m., Sirrine Auditorium.
Apr. 4	Th	Seminar - School of Industrial Management and Textile Science - 2 p.m., Sirrine Auditorium. Mr. Sherwood E. Liles, Jr., President, Tidewater Construction Corporation, Norfolk, Virginia, will be the speaker.
Apr. 4	Th	Graduate Wives Club, 8 p.m., YMCA
Apr. 4	Th	Woman's Club Luncheon, Clemson House, 9 p.m.
Apr. 4	Th	Seminar - Botany and Bacteriology Department - 4 p.m., 222 Long Hall. W. Timothy Mercier will speak on "Photosynthesis in Diseased Plants (Chemical)."

ANNUAL RE-WORK PERIOD -- TRAVELERS INSURANCE GROUP

The annual re-work period for the Travelers Insurance Group will be March 1-31, 1968. Company representatives will be on campus during this period and will be available to explain the Travelers plans and coverage to any interested employee. Visits will be made to any department desiring such and at times most convenient to the respective departments.

Any present member desiring to make changes to fit their individual needs may do so at this time. Employees presently enrolled and desiring no changes will be automatically continued and need not contact the representatives at this time. Anyone who desires to obtain this type of insurance coverage must make application during their first 31 days of employment, or during this re-work period.

If you wish to make an appointment with one of the representatives, you may do so by contacting Mr. W. J. Stamey, Personnel Division, Extension 365.

MINUTES OF THE RESEARCH FACULTY COUNCIL MEETING

February 20, 1968

The monthly meeting of the Research Faculty Council was called to order at 4:00 p.m. in Room No. 28 of Tillman Hall by Chairman Fox.

Members absent were: L. O. Van Blaricom, H. H. Macaulay, M. J. B. Paynter, and L. Brown.

The minutes of the January 16, 1968 meeting were approved as circulated.

Chairman Fox welcomed G. C. Kingsland and J. W. Hubbard to the Research Faculty Council who were elected by the College of Agriculture and Biological Science to replace W. C. Mickelberry and L. O. Drew on the Council. Chairman Fox appointed J. W. Hubbard to serve on the Safety Committee.

U. S. Jones, Chairman of Policy Committee, reported that the committee had met twice during the past month and that a statement concerning Guidelines for Classified Contract Research would be presented at the March meeting of the Council.

The following resolution was approved by the Council:

The Research Faculty Council recommends that the University make dormitory facilities available for all graduate students who find it necessary to remain on campus during holidays.

Considerable discussion was held concerning the proposed Faculty Club. A. S. Tombes and S. F. Hulbert requested that each council member canvass the faculty members which they represent as to their wishes concerning a Faculty Club at Clemson University.

The meeting was adjourned at 5:20 p.m.

Respectfully submitted,

S. F. Hulbert
Secretary

SFH:sbw

MINUTES OF THE FACULTY SENATE

January 23, 1968

The Faculty Senate met for a regular monthly session on January 23, 1968, in Olin Hall Auditorium with President James N. Thurston presiding. Though the meeting had been scheduled for 4:15, it could not be called to order until a quorum was reached at 4:37 p.m. Business during the meeting consisted of consideration of the minutes, reports by the President and the chairman of the Policies Committee, and questions from the floor.

With minor corrections the minutes of the meeting on December 5, 1967, were approved as circulated.

President Thurston's report was lengthy, covering announcements, discussions with Dean Hurst, and items for action by the Senate. President Thurston announced the formation of a Committee on the Faculty Club, consisting of four members, S. M. Lukawecki and R. T. Reep from the Faculty Senate and A. S. Tombes and S. F. Hulbert from the Research Faculty Council. He also announced the approval by President Edwards of a Speakers' Bureau which had been proposed by students. President Edwards had asked him, as President of the Faculty Senate, to appoint for staggered terms on the Bureau two faculty members and one representative from the administrative staff. President Thurston called attention to the article in The Tiger on employment placement and clarified a point concerning right of attendance at sessions of the Faculty Senate. According to the Senate's Constitution, he said, only academic faculty may attend without special invitation; meetings are not open to the administration as reported recently in The Tiger. He then reviewed his discussions with Dean Hurst. He reported (1) that Dean Hurst recognized the occasional need for car rentals but felt they should be avoided if possible, (2) that Dean Hurst, in response to students' request, has agreed to another discussion between faculty and students of attendance regulations and asked for the appointment of a representative from the Senate, (3) that a study is being made to determine dormitory and food service needs during holidays, especially of graduate and foreign students, (4) that there was no additional information available on the sheltered annuities program, and (5) that Dean Hurst was receptive to the Senate's recommendation for establishing procedures involving academic faculty in the future selection of academic administrators, when he understood that the faculty's wishes would be advisory instead of compulsory. So that the Arts and Sciences faculty might participate in the selection of a dean to replace Dr. H. L. Hunter upon his retirement, Dean Hurst asked that a general procedure be worked out soon.

The first of two items presented by President Thurston for Senate action was the election of a replacement for J. D. Antrim on the Committee of Committees. D. W. Bradbury from the School of Engineering was chosen by acclamation. The other item was a request from the administration to consider changing the date of approving candidates for graduation in order to allow the Registrar's Office more time for preparing graduation lists. A motion was made from the floor to shift the responsibility of approving candidates for graduation from the general faculty to the faculty of individual schools and colleges. After much discussion the motion was passed. However, a subsequent motion to recommend elimination of the General Faculty meeting at semester's end was defeated.

None of the committees had business to report. However, J. G. Dinwiddie, Chairman of the Policies Committee, called attention to the fluctuating length of semesters at Clemson since 1963. The length varied from a low of 84 actual class days to 91. Earlier, he recalled, the number had been 94. Decisions of this kind, involving a reduction of professor-student contact time, ought to involve the faculty, he felt.

Just before the meeting was adjourned, one question was raised concerning faculty evaluation. No one seemed to know anything about it.

Respectfully submitted,

Rameth Owens (Mrs. Walton H., Jr.)

Absent: F. C. Alley, R. C. Harshman, Harriet Holman, S. F. Hulbert, J. H. Marvin, A. F. Newton, R. F. Nowack, Eugene Park, J. E. Pinckney, J. V. Reel, H. G. Spencer.

DR. CLAUD B. GREEN NAMED ASSISTANT DEAN OF THE UNIVERSITY EFFECTIVE MARCH 6, 1968

Dr. Claud B. Green, Professor of English and Director of Summer Sessions and Extended Programs, has been named Assistant Dean of the University effective March 6, 1968.

Dr. Green, a native of Clayton, Georgia, received his BA in 1935 and his MA in 1938 from the University of Georgia. His PhD was awarded him by Duke University in 1953.

Dr. Green has been a member of the Clemson faculty since 1940 and in 1961 received the Outstanding Service Award presented by the Clemson University Alumni Association in Recognition of Contributions to Higher Education through service to Clemson University. He has authored several publications and has reviewed books for professional and learned journals.

He is a member of Phi Beta Kappa, Phi Kappa Phi, the Modern Language Association of America, the South Atlantic Modern Language Association, the American Studies Association, the Southeastern American Studies Association, and is called upon from time to time to help conduct self-studies for the Southern Association of Colleges and Schools.

NSF TRAINEESHIPS

The University has been awarded eight new NSF Traineeships, and three Summer Traineeships for the coming year. Last year seven new awards were made to the institution.

SOUTHEASTERN AMERICAN STUDIES ASSOCIATION

The biennial meeting of the Southeastern American Studies Association will be held at Clemson University on April 5-6, 1968. Dean C. B. Green of Clemson is Vice-President of the Association and Chairman of the Program Committee. There will be four sessions on Friday, April 5, and one on Saturday morning, April 6, to which all Clemson faculty and students are cordially invited. The Conference proposes to study the Piedmont South. The following papers, with discussion and questions after each paper, will be presented.

Friday, April 5

- | | |
|------------|---|
| 9:00 A.M. | Welcome by President R. C. Edwards |
| 9:15 A.M. | The Piedmont South--Its History
Thomas D. Clark, University of Kentucky |
| 11:00 A.M. | The Piedmont South--Its Economics
G. H. Aull, Professor Emeritus, Clemson University |
| 1:30 P.M. | The Piedmont South--Its Literature
Louis D. Rubin, University of North Carolina |
| 3:15 P.M. | The Piedmont South--Its Language
James B. McMillan, University of Alabama |

Saturday, April 6

- | | |
|-----------|--|
| 9:45 A.M. | The Piedmont South--Its Politics
Wayne Freeman, Editor, The Greenville News |
|-----------|--|

All sessions will be held in the Clemson Room of Clemson House. It is hoped that all interested Clemson faculty and students will be able to hear these papers and participate in the discussions.

SALUTE TO THE CITADEL

We congratulate The Citadel and its 2,000-man Corps of Cadets on their 125th anniversary. The Citadel is observing its birthday celebration March 14-23.

GLEE CLUBS' CONCERT - MARCH 29

Clemson University Glee Clubs' music will be chosen from the following groups:

MEN'S GLEE CLUB

Medley of Barbershop Tunes

The Old Songs
You'll Never Know the Good Fellow I've Been
Give My Regards to Broadway
Yankee Doodle Boy
You're a Grand Old Flag
Down by the Old Mill Stream

Contemporary

Tarantella for Men's Voices by Randall Thompson
Processional for Men's Voices by Charles Ives
Serenity -- Charles Ives
The Greatest Man -- Charles Ives

Folk Songs

Shenandoah
The Riddle Song
Charlottown
The Water is Wide

WOMEN'S GLEE CLUB

Music from the 16th Century

Madrigals
Now is the Month of Maying
O Eyes of My Beloved
I Cannot Conceal It

Motet

Confitemini

Three Irish Folk Songs

Shule Agra
The Drinaun Donn
Johnny, I hardly Knew Ye

Contemporary Popular

Georgy Girl

COMBINED GLEE CLUBS

Frostiana

Seven Country Songs - Words by Robert Frost - Music by Randall Thompson
The Road Not Taken
The Pasture
Come In
The Telephone
A Girl's Garden
Stopping by Woods on a Snowy Evening
Choose Something Like a Star

Folk Mass - Contemporary

Kyrie
Nicene Creed
Sanctus
The Lord's Prayer
Gloria in Excelsis

Spirituals

I Want Jesus
Amen
Great God A'Mighty

GIFTS AND GRANTS

--Sheldon J. Rimer, Bali Hia Ranch, Laurens, S. C., a gift of one Charolais bull to the Animal Science Department to be used for cross breeding studies.

--Owens-Corning Fiberglas Corp., a gift of fiberglas valued at \$1,172 to the Poultry Science Department for turkey environmental studies.

PERSONAL MENTION

--W. J. Lanham (AgEcon) presented a paper on "Market Systems - Some Comparisons" at the Agricultural Policy Institute Conference on Tobacco Mechanization and Marketing, Raleigh, North Carolina, February 20.

--V. A. Boyd (AgEcon & RS) attended the organizational meeting of the Southern Rural Sociology Research Committee in Atlanta, Georgia, Feb. 15-16.

--W. H. Wiley (Ag & BioSci) has been informed by Dr. Ned D. Bailey, Deputy Director for Science and Education, U.S. Department of Agriculture, of his appointment with Dr. S. C. King of the Agricultural Research Service, as co-chairman of the long range study Task Force on Poultry. Five representatives from state Experiment Stations, three representatives from the Agricultural Research Service, one from the Economic Research Service, and one from the Cooperative Research Service, will make up the total Task Force to develop long range needs for research in the field of Poultry Science.

--Graydon C. Kingsland (Bot) has been appointed to the University Patent Committee to serve the unexpired term of Dr. W. C. Mickelberry (FdSci) who has resigned. Dr. Kingsland's appointment will be effective until July 1, 1970.

--R. J. Ferree, leader, Extension Horticulture Work, was given a plaque at the annual meeting of the South Carolina Peach Council on February 19 in Charleston in recognition of 22 years of devoted and faithful service. The award was presented by J. Calvin Rivers, president of the South Carolina Peach Council.

--Barbara Morgan (Educ) gave a lecture on "Estimating Reading Potential" at Hanna High School, Anderson, on March 1.

--F. C. Alley (ChE) presented a paper entitled, "Air Pollution as it Affects Agriculture" at the Spring Meeting of the South Carolina Section of the American Society of Agricultural Engineers at Florence, February 22.

--J. W. Hall, R. C. Harshman, W. B. Barlage, and D. F. Bruley (ChE) attended the National Meeting of the American Institute of Chemical Engineers in St. Louis, February 18-22.

PERSONAL MENTION (Cont'd)

--G. L. Hardy (AgE) presented a paper entitled, "Animal Environment Facilities of the S. C. Agricultural Experiment Station," at the Spring Meeting of the South Carolina Section of the American Society of Agricultural Engineers held at Florence, February 22-23.

--W. P. Gladden (AgE) presented a paper entitled, "Effect of Weather on Cotton Quality," at the Spring Meeting of the South Carolina Section of the American Society of Agricultural Engineers held at Florence, February 22-23.

--L. O. Drew (AgE) has resigned as Associate Professor of Agricultural Engineering to accept a position as Adviser to the Dean of the College of Agricultural Engineering at Udaipur University, in the State of Rajasthan, India.

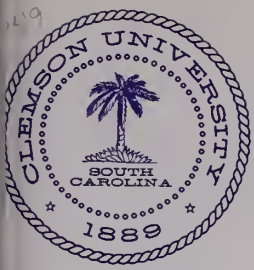
--J. T. Lazar, Jr. (DySci) was elected president of the Southern Division of the American Dairy Science Association.

--N. R. Bauld, Jr. (EM) and C. R. Mitchell (EM) attended the Fourth South-eastern Conference on Theoretical and Applied Mechanics held in New Orleans, Louisiana, February 29 and March 1.

--T. H. Garner (AgE) presented a paper entitled, "Seedling Environment," at the Spring Meeting of the South Carolina Section of the American Society of Agricultural Engineers held at Florence, February 22-23.

--J. T. Ligon (AgE) was elected Secretary of the South Carolina Section of the American Society of Agricultural Engineers at the Spring Meeting held in Florence, February 22-23.

--D. F. Bruley (ChE) has been appointed to the Board of Directors of the Analog/Hybrid Computer Educational Users Group.



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NEWSLETTER

INFORMATION FOR THE STAFF OF CLEMSON UNIVERSITY

Vol. 7 No. 15

April 1, 1968

CALENDAR: APRIL 1 - APRIL 15, 1968

- | | | |
|----------|-------|--|
| Apr. 1 | M | Last day to withdraw without having grades recorded |
| Apr. 1 | M | Last day to drop a subject |
| Apr. 1 | M | FOREIGN LANGUAGE FILM SERIES - Civil Engineering Auditorium, 7 & 9 p.m. "Banana Peel" (French) 1965
With Jeanne Moreau, Jean-Paul Belmondo, Gert Frobe
(Goldfinger) A romantic suspense comedy. |
| Apr. 1 | M | Agronomy 825 - Book Reviews of Soil Science Texts: 4 p.m., Room A203 P&AS.
Tom Bishop - "Organic Soils" - David & Lucas
John Bozard - "Introductory Soils" - Burger
Robert Gambrell - "Soil Fertility and Fertilizers - Tisdale & Nelson
Shay Hane - "Soil Conditions and Plant Growth" - Russell |
| Apr. 1-6 | M-Sat | "Clemson Around the World" |
| Apr. 2 | T | Baseball - University of Georgia at Clemson |
| Apr. 2 | T | Class Officers Election |
| Apr. 2 | T | Sage Club Dinner Meeting, 6 p.m., Clemson House. Tom Woodam, graduate horticultural student; Kay Martin, undergraduate horticultural student; and Paul Morris, undergraduate architectural student interested in landscaping, will talk on why they selected horticulture as a major field of interest and relate some of their experiences. |
| Apr. 2 | T | Continuing Education Classes |
| Apr. 2 | T | Spring Banquet, Phi Kappa Phi, 6:30 p.m., Clemson House. Dr. Charles S. Davis, President, Winthrop College, and past National President, Phi Kappa Phi, will be the speaker. |
| Apr. 3 | W | Baseball - Clemson at Davidson |
| Apr. 3 | W | HONORS AND AWARDS - Classes suspended at 12 noon. |
| Apr. 3 | W | Dr. W. Wright Bryan, Vice-President, Development, Clemson University, will speak at the School of Industrial Management and Textile Science Honors and Awards Day Convocation, 2 p.m., Sirrine Auditorium. |
| Apr. 3 | W | Initiation Banquet, Gamma Sigma Delta, 7 p.m., Clemson Room of Clemson House. |

Apr. 4	Th	Seminar - School of Industrial Management and Textile Science- 2 p.m., Sirrine Auditorium. Mr. Sherwood E. Liles, Jr., President, Tidewater Construction Corporation, Norfolk, Virginia, will be the speaker.
Apr. 4	Th	Graduate Wives Club, 8 p.m., YMCA
Apr. 4	Th	Woman's Club Luncheon, Clemson House, 1 p.m.
Apr. 4	Th	Seminar - Botany and Bacteriology Department - 4 p.m., 222 Long Hall. W. Timothy Mercier will speak on "Photosynthesis in Diseased Plants (Chemical)."
Apr. 4-6	Th-Sat	Biennial Meeting, Southeastern American Studies Association, Clemson House.
Apr. 5	F	Baseball - Duke at Clemson
Apr. 5	F	CDA Taps Junior-Senior, Dining Hall
Apr. 6	Sat	Last day for those who expect to receive the Doctor of Philosophy degree on May 4 to present completed dissertation to student's advisory committee.
Apr. 6	Sat	Track - State Relays
Apr. 6	Sat	Tennis - N. C. State at Clemson
Apr. 6	Sat	Baseball - Wake Forest (2 games)
Apr. 6	Sat	TAPS Junior-Senior Banquet & Dance
Apr. 7	Sun	Palm Sunday
Apr. 8	M	Graduate Seminar - Agronomy 825, 4 p.m., A203 P&AS. L. P. Anderson - "The Effects of Trifluralin on the Gross- and Microstructure of Cotton Roots."
Apr. 8	M	FOREIGN LANGUAGE FILM SERIES - Civil Engineering Audi- torium, 7 & 9 p.m. "Tonio Kroger" (German) 1965 Adapted from the novella of Thomas Mann Script by Erika Mann (his daughter) and Ennio Flaiana (co-author of Fellini's scripts) With Jean-Claude Brialy, Nadja Tiller, Cert Frobe.
Apr. 9	T	Tennis - Clemson at Duke
Apr. 9	T	Continuing Education Classes
Apr. 9	T	Band "Pops" Concert, 8 p.m., Tillman Hall Auditorium.
Apr. 10-11	W-Th	1968 Forest Lecture Series - A-101 P&AS. Dr. Donald P. Duncan, Director and Professor, School of Forestry, University of Missouri will be the speaker.
Apr. 11	Th	ROTC Recognition Day

Apr. 11	Th	Seminar on "Recent Developments in Materials of Engineering" sponsored by the Department of Ceramic Engineering, Clemson University and S. C. Technical Services Program, State Development Board. The program will include brief reviews on conventional materials, new application techniques, and appropriate tests for product specifications. Also featured will be a luncheon with a talk and slides on "Engineering Nightmares" by Dr. A. E. Schwartz, Professor and Head, Civil Engineering Department.
Apr. 11	Th	Seminar - Botany and Bacteriology Department - 4 p.m., 222 Long Hall. James F. Moore, Jr., will speak on "Photosynthesis in Diseased Plants (Physical)."
Apr. 11	Th	Golf - University of North Carolina at Clemson
Apr. 11	Th	University Lecture Series - Dr. Richard B. Murray, Professor of Physics at the University of Delaware will speak on the subject, "Emission of Light from Solids," at 8 p.m., Room 101 Physics. He will give a more technical talk: "Optical Reorientation of V_k Centers in Alkali Halides" at 4 p.m., Room 101 Physics.
Apr. 12	F	The Society of the Sigma Xi Initiation and Banquet, 7 p.m., Clemson House. Mr. J. K. Cauthen, Chairman, State Commission on Higher Education will be the speaker.
Apr. 13	Sat	Jewish Passover
Apr. 13	Sat	Track - Duke at Clemson
Apr. 13	Sat	Tennis - University of Maryland at Clemson
Apr. 13	Sat	Baseball - University of North Carolina at Clemson (2 games)
Apr. 15	M	Golf - at University of Virginia & University of Maryland
Apr. 15	M	Tennis - University of Virginia at Clemson
Apr. 15	M	Baseball - Georgia Tech at Clemson
Apr. 15	M	FOREIGN LANGUAGE FILM SERIES - Civil Engineering Auditorium, 7 & 9 p.m. "The Important Man" (Mexican-Spanish) 1962. Based on the novel <u>La Mayordomia</u> by Rogelio Barriga Rivas. Award Winner at San Francisco Film Festival: Best Picture, Best Photography.
Apr. 15	M	Agronomy 825 - Book Reviews of Soil Science Texts: 4 p.m., Room A-203 P&AS. Ken Hines - "Soil and Soil Fertility" - Thompson Sandy Houck - "Hunger Signs in Crops" - Sprague Dave Huckabay - "The Soils That Support Us" - Kellogg Charlie Mills - "That We May Live" - Jamie Whitten
Apr. 16	T	Continuing Education Classes

Apr. 16	T	Baseball - University of South Carolina
Apr. 16	T	Research Faculty Council, 4 p.m., 28 Tillman Hall
Apr. 17	W	Last day for filing GS4, "Admission to Candidacy for a Degree" for those who expect to receive the Doctor of Philosophy degree on December 17, 1968.
Apr. 17	W	Golf - Wake Forest at Clemson
Apr. 18	Th	Seminar - Botany and Bacteriology Department - 4 p.m., Room 222 Long Hall. John W. Van Duyn will speak on "Current Controversial Problems in Photosynthesis."

BUDGET BUREAU ASKS AGENCIES TO CUT BACK TRAVEL ABROAD BY 25%

All Federal agencies have been asked by the Budget Bureau to submit by March 15 their overseas travel plans through Fiscal Year 1969. "Each agency head should take as his objective a reduction of 25 percent" in overseas travel, a Budget Bureau bulletin states. The action is in response to Administrative efforts to minimize the balance of payments problem.

The Budget Bureau said the government-wide step "covers all travel outside the United States and its territories, including travel to and from Canada and Mexico."

"Particular attention will be given to international conferences overseas and to attendance at other meetings abroad," Budget Bureau Director Charles J. Zwick said. "Agency heads will take additional appropriate steps to restrict overseas travel by persons under contracts with or grants from their agencies."

Although it is up to the individual agencies to work out the details of the new restrictions, travel funds to scholars, scientists and other members of the academic community definitely will be affected.

In his bulletin to all agency heads, Zwick said each agency should take the following measures: (a) tighter controls over travel authorizations, including screening of overseas trips by appropriately high echelons of management; (b) designation of a central point for information, planning, and monitoring of overseas travel; (c) reduced attendance at meetings abroad; (d) greater use of more rapid transportation and other steps to avoid loss of time enroute; (e) greater use of less-than-first-class accommodations; (f) greater use of American carriers; and (g) maximum use of excess foreign currencies. Countries whose currencies have been designated as excess for 1967, 1968, and 1969 are Burma, Ceylon, Congo (Kinshasa) (1967 and 1968 only), Guinea, India, Israel, Pakistan, Poland, Tunisia, United Arab Republic (Egypt), and Yugoslavia.

1968 FOREST LECTURE SERIES

Sponsored by the Department of Forestry and Extension Service of
Clemson University, the National Science Foundation and the
Society of American Foresters

DATE: April 10 and 11, 1968

PLACE: Room A-101, Plant and Animal Science Building

SPEAKER: Donald P. Duncan, Director and Professor, School of
Forestry, University of Missouri

ENVIRONMENTAL RELATIONS IN FORESTRY

Wednesday, April 10

10:00 A. M. The Forest As Environment
11:00 A. M. Questions - Answers - Discussion
12:00 Noon Adjourn for Lunch
1:30 P. M. Managing Our Forested Environment
2:30 P. M. Questions - Answers - Discussion
3:30 P. M. Adjourn

Thursday, April 11

10:00 A. M. Aesthetics Versus Utility in Forestry
11:00 A. M. Questions - Answers - Discussion
12:00 Noon Adjourn
1:30 P. M. Individual conferences for those desiring them
with Dr. Duncan

The topics to be presented although interrelated are independent
entities so attend all the sessions or those of your choice.

NO TUITION OR REGISTRATION FEE

MALE GRAD ENROLLMENT EXPECTED TO DROP 70%, SCHOOL SURVEY FINDS

As it now stands, the draft law will cause a 70 percent drop in the entering male enrollment in full-time graduate schools next year, according to a survey released March 14 by the Scientific Manpower Commission and the Council of Graduate Schools in the United States. At a Washington news conference, spokesmen for the two organizations also predicted colleges and universities will find it necessary this summer to restrict undergraduate enrollment in the fall because of a shortage of graduate teaching assistants.

The survey, which covered 122 CGS member institutions in 48 states, found that total enrollment - male and female - will fall 50 percent in the first-year class, and 33 percent in the class of full-time second-year graduate students. The proportion of women in the first-year graduate class is expected to exceed 50 percent for the first time since World War II.

Betty M. Vetter, SMC executive director, and Gustave O. Arlt, CGS president, told reporters that, while it cannot yet be predicted with precision, about 20 percent of freshman applicants for college next fall probably will have to be turned away because of lack of graduate-student teachers. A few years later, they said, impact of the draft law will be felt by industry, elementary and secondary schools, government, and other users of graduate-level manpower.

The survey found that the disciplines of physics and engineering will be the hardest hit in the sciences, with first-year classes down 64 and 62 percent. "Law schools can be expected to take a similar cut," the report states. The report adds that the 1968-69 second-year class in graduate school will be only 77 percent of the class that would have been expected if the draft rules had not intervened. The male portion of the class will be down 31 percent, while the female portion is assumed to remain steady. The second-year class includes more than twice as many fathers and foreign students as does the first-year class. The survey did not attempt to assess classes beyond the second year.

Arlt pointed out that graduate enrollment already is expected to fall off in the 1970s because of the war-time decline in births in the 1940s. The draft law now will compound the problem, he said, causing the future production of persons with graduate degrees to fall "far below the needs of government, industry, education and the total social structure."

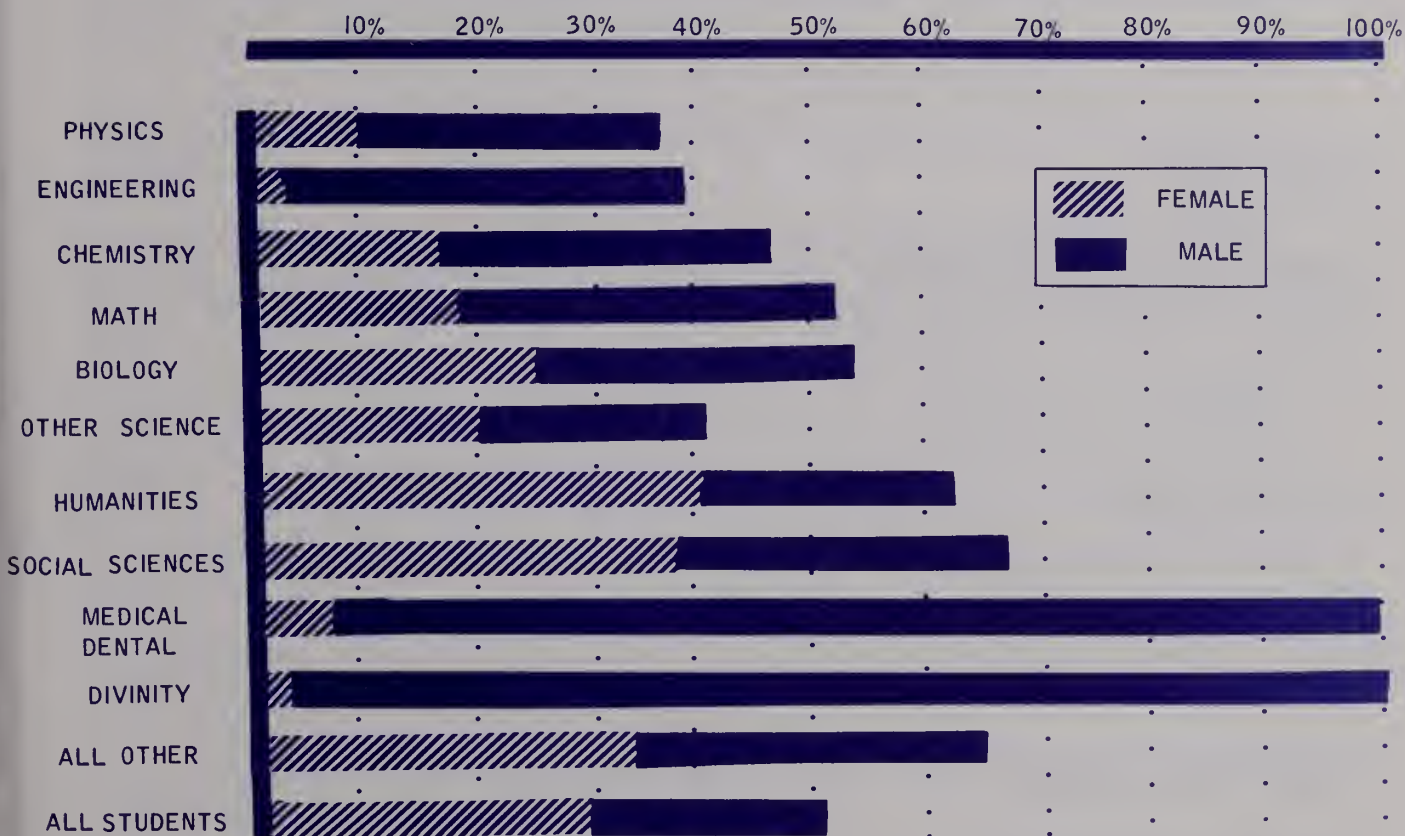
In an attempt to cope with the situation next fall, Arlt said, several private graduate institutions plan to overcommit themselves in accepting graduate school applications. It will be very difficult for public institutions to do this, however, he said, because of their tighter budget controls.

Arlt said he was "hopeful" that Selective Service will permit graduate students called by the draft to postpone their induction until the end of the term or semester they are in. Such a suggestion was formally presented to Selective Service Director Lewis B. Hershey March 11 by the American Council on Education, the Council of Graduate Schools and American Association for Higher Education, American Association of Junior Colleges, American Association of University Professors, Association of American Colleges, Association

Male Grad Enrollment (Cont'd)

of American Universities, American Association of State Colleges and Universities, Council of Protestant Colleges and Universities, National Association of State Universities and Land-Grant Colleges, National Catholic Educational Association, and the National Commission on Accrediting. Gen. Hershey said he would take it under advisement.

The table below, from the SMC-CGS survey of graduate institutions, projects the percentages of men and women students by field in the first year of graduate school next fall. 100 percent equals normal enrollment.



- from "Higher Education and National Affairs, March 15, 1968"

SEASON TICKET APPLICATIONS FOR 1968-69 ATHLETIC EVENTS

Faculty and staff athletic season ticket applications have been distributed to deans and department heads. If you have not received an application contact your supervisor or the athletic department. Deadline for ordering season tickets is May 15, and orders should be returned as soon as possible to the athletic department. Faculty and staff leaving the campus for the summer should complete and return their application before their departure.

LECTURESHIPS AVAILABLE IN FOREIGN COUNTRIES

The February Bulletin on the U. S. Government educational exchange program lists approximately sixty lectureships that are still available to American faculty members for 1968-70 at institutions of higher learning in Europe, Asia, Africa, the Middle East, and Latin America.

The Bulletin also contains a preliminary announcement of awards for university lecturing and advanced research for 1969-70 in Argentina, Australia, Colombia and New Zealand, for which applications are now being accepted from American scholars.

This publication may be consulted at the office of the Faculty Fulbright Adviser, F. I. Brownley, Jr., Room 17, Tillman Hall.

SUMMER RENTALS

Faculty and staff members interested in subleasing or renting their furnished apartments during the summer months may list them with the University Housing Office prior to May 1, 1968. Telephone extension 343 or 347, E. C. Watson, Housing Manager.

GIFTS AND GRANTS

--Union Carbide to the Chemical Engineering Department, a grant of \$5,000 for unrestricted use.

--DuPont Company to the Chemical Engineering Department, a grant of \$2,500 for unrestricted use.

--Dow Chemical Company to the Chemical Engineering Department, a grant of \$1,000 for scholarships.

--Monsanto Company to the Chemical Engineering Department, a grant of \$1,000 for scholarships.

--Eastman Kodak Company to the Chemical Engineering Department, a grant of \$4,000 for a graduate fellowship.

--Ethyl Corporation to the Chemical Engineering Department, a grant of \$500 for scholarships.

--Olin-Mathieson Chemical Company to the Chemical Engineering Department, \$1,250 for a summer research grant for an undergraduate student.

--National Science Foundation \$61,656 to Dr. J. G. Goree (EM) and Dr. M. K. Richardson (EM) to perform research entitled, "Stress Concentrations in Composite Materials." This grant will continue for two calendar years.

PERSONAL MENTION

--J. A. Martin (Hort) was appointed provisional judge of the All American Vegetable Selections at Clemson University at the recent National Agricultural Plastics Conference in San Diego, California.

--P. M. Alexander (Hort) chaired the Educational Program of the Carolina Golf Course Superintendents Association at Charleston Air Force Base on January 9.

--P. M. Alexander (Hort) presented a paper, "Species for Overseeding," at the 39th International Turfgrass Conference and Show, San Francisco, Calif., January 18-23. The premiere showing of the 24 minute color and sound movie, "Specifications for the Construction of a Putting Green," which was filmed at Clemson University during the construction of the two research putting greens at the Clemson House, was made.

--P. M. Alexander (Hort) presented a paper entitled, "Pro-Superintendent Relations," at the Carolina Section PGA Educational Seminar, Greenville, February 26-28.

--Andrew Sobczyk (Math) accepted invitations to visit the Universities of Waterloo and Western Ontario, Canada, and at the latter to deliver on March 7 a Colloquium Lecture, on the topic, "Obtuse Configurations and Ramsey's Number $R(4,4;3)$."

--Frederick J. Keller (Phys) presented a talk to the regular weekly colloquium at the Department of Physics at the University of South Carolina on February 21. The title of the talk was "Motion of Holes in Alkali Halides."

--P. Alston Steiner (Phys) and Frederick J. Keller (Phys) attended the ACS Short Course on Electron Spin Resonance held at the University of Tennessee on March 14-16.

--H. W. Graben (Phys) is the author of the lead article in the March 11 issue of the Physical Review Letters. The title of the article is, "Contribution of 3-body Forces to the Theory of Liquids."

--Henry E. Vogel (Phys) presented a talk on "Superconductivity" to the Science Club of Spartanburg High School on March 7.

--R. H. Hunter (Visual Studies) had a one-man show at the William Hayes Ackland Memorial Art Center, University of North Carolina, Chapel Hill, on March 17-31.

--Mrs. Virginia O. Bardsley (Hist) read, "James Rogan, Hill Country Unionist," before the Mississippi Historical Society at its annual meeting at Delta State College on March 7.

--P. B. Zielinski (EM) attended the International Symposium on "Two-Phase Flow" held at the University of Pennsylvania, Philadelphia, Pennsylvania, March 3-6.

--R. C. Harshman (ChE) spoke on March 5 to the Western North Carolina Section of American Institute of Chemical Engineers on "Application of Digital Computers in Chemical Engineering."

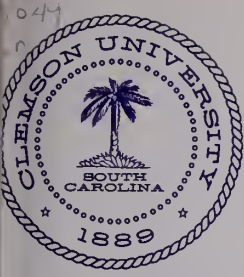
PERSONAL MENTION (Cont'd)

--D. W. Nalley (EE) has been selected to attend the NASA Summer Fellowship Program in Huntsville, Alabama to work in the area of computations and simulations.

--T. T. Yang (ME) represented Clemson University at the Regional Meeting of American Institute of Astronautics and Aeronautics held at N. C. State, March 21-22.

--T. T. Yang (ME) has been granted a Faculty Fellowship to the National Aeronautics Space Administration at Lewis Research Center, Cleveland, Ohio for the summer of 1968 - June 10 through August 15.

--C. S. Rudisill (ME) has been selected as a participant to the summer institute on "Computer Aided Design in Engineering Education" sponsored by the National Science Foundation. The course will be held at the University of Houston, June 10 through August 2.



SOUTH CAROLINA ROOM APR 16 1968

CLEMSON

NEWSLETTER

INFORMATION FOR THE STAFF OF CLEMSON UNIVERSITY

Vol. 7 No. 16

April 15, 1968

CALENDAR: APRIL 15 - APRIL 30, 1968

- Apr. 15 M Golf - at University of Virginia & University of Maryland
- Apr. 15 M Tennis - University of Virginia at Clemson
- Apr. 15 M Baseball - Georgia Tech at Clemson
- Apr. 15 M FOREIGN LANGUAGE FILM SERIES - Civil Engineering Auditorium, 7 & 9 p.m. "The Important Man" (Mexican-Spanish) 1962. Based on the novel La Mayordomia by Rogelio Barriga Rivas. Award Winner at San Francisco Film Festival: Best Picture, Best Photography.
- Apr. 15 M Agronomy 825 - Book Reviews of Soil Science Texts: 4 p.m., Room A-203 P&AS.
Ken Hines - "Soil and Soil Fertility" - Thompson
Sandy Houck - "Hunger Signs in Crops" - Sprague
Dave Huckabay - "The Soils That Support Us" - Kellogg
Charlie Mills - "That We May Live" - Jamie Whitten
- Apr. 16 T Continuing Education Classes
- Apr. 16 T Baseball - University of South Carolina
- Apr. 16 T Research Faculty Council, 4 p.m., 28 Tillman Hall
- Apr. 17 W Last day for filing GS4, "Admission to Candidacy for a Degree" for those who expect to receive the Doctor of Philosophy degree on December 17, 1968.
- Apr. 17 W Golf - Wake Forest at Clemson
- Apr. 18 Th Seminar - Botany and Bacteriology Department - 4 p.m., Room 222 Long Hall. John W. Van Duyn will speak on "Current Controversial Problems in Photosynthesis."
- Apr. 18 Th UNIVERSITY LECTURE SERIES - Dr. Michael J. S. Dewar, Professor of Chemistry at the University of Texas, will speak on "Aromaticity and Electrocyclic Reactions" at 8 p.m., Room 131 Brackett Hall. Dr. Dewar will also speak at the regular Chemistry seminar on "Interpretation of ¹⁹F NMR Chemical Shifts" at 4 p.m., Room 131 Brackett Hall.
- Apr. 19 F Last day for oral and/or written examinations for those who expect to receive the Master's degree on May 4.
- Apr. 20 Sat Baseball - University of Maryland at Clemson (2 games)

Apr. 20	Sat	Last day for final oral examination for those who expect to receive the Doctor of Philosophy degree on May 4.
Apr. 22	M	Golf - Duke University
Apr. 22	M	Agronomy 825 - Book Reviews of Soil Science Texts: 4 p.m., Room A203 P&AS. Gilder Neel - "Soils, Nature and Management" - Truog and Englebert Don Sharp - "Soil Science Simplified" - Kohnke Henry Yonce - "Soil-Plant Relationships" - Black Henry Swink - "Nature and Properties of Soils" - Buckmen & Brady
Apr. 22	M	The annual meeting of The Research Faculty will be held at 4 p.m., in the auditorium of Earle Hall. All members of the Research Faculty are urged to be present.
Apr. 22	M	May graduates turn in data card and pick up gift in Alumni Office
Apr. 23	T	Reading Day
Apr. 23	T	Faculty Senate - 4:15 p.m., Auditorium of Olin Hall
Apr. 23	T	Continuing Education Classes
Apr. 24	W	Examinations begin
Apr. 25-26	Th-F	Dr. Samuel Spicer, Department of Pathology, Medical College of South Carolina, will be on campus to discuss opportunities for cooperative research and graduate training using histochemical techniques and electron microscopy. Dr. Spicer will present the programs and facilities available at the Medical College in a seminar on April 25 at 1:30 p.m. in Room C-127 P&AS. Following the seminar, Dr. Spicer will be available to discuss specific areas of possible cooperation with staff members. Individuals interested in meeting with Dr. Spicer are asked to contact William Chalupa, Ext. 230.
Apr. 27	Sat	Final date for May Master's and PhD candidates to submit thesis or dissertation to the Graduate Office
May 2	Th	Baseball - at University of North Carolina
May 3	F	Baseball - at N. C. State (2 games)
May 4	Sat	Baseball - at Georgia Tech
May 4	Sat	Commissioning Exercises, 11 a.m., Tillman Hall Auditorium
May 4	Sat	President's Reception for graduates and their families - 2:30-3:30 p.m., President's Home
May 4	Sat	Commencement Exercises, 5 p.m., Outdoor Theatre

NEWSLETTER

Inasmuch as Dr. Claud B. Green, Assistant Dean of the University, is taking over the academic duties relating to the Clemson Newsletter, it is requested that all future academic news items be submitted to him at his office, Room 28, Tillman Hall.

USE OF THE WATS LINE

It has come to our attention that persons are sometimes requesting the use of the WATS line when there are other circuits available.

Clemson University has two direct circuits to Greenville - these also serve Easley, Fountain Inn, Greer, Simpsonville, Piedmont, and Travelers Rest.

Clemson has a direct circuit to Anderson which also serves Belton, Honea Path, Iva, Starr, and Williamston.

Finally, Clemson has a direct circuit to Columbia - Lexington.

If you have official need to call the above-named cities and towns, ask the Clemson University operator for a direct line (on the direct lines, you don't need to prefix your number with a "1" - just dial as if it were a local call). If the direct lines are busy, you may use the WATS line.

By observing the following, you will make the WATS line a more efficient medium for making South Carolina calls.

FOOD TECHNOLOGISTS TO MEET

On Friday, April 19, 1968, there will be a meeting of the Dixie Section, Institute of Food Technologists at the Clemson House. At the technical session from 3:00 to 5:00 p.m., Dr. Joseph Rakosky, Jr., Director of Technical Services, Central Soya Company, will speak on "Soy Proteins in Food Applications - Today and Tomorrow," and Dr. Maurice W. Hoover, Professor of Food Science, North Carolina State University, will speak on "New Product and Process Development Research for the Small Independent Processors." At the banquet, 6:30 to 8:30 p.m., Dr. Kermit Bird, Agricultural Economist, U.S.D.A., will speak on "An Appraisal of Some Foods of the Future."

COUNSELING CENTER EXPANDS TESTING SERVICES

The Clemson University Counseling Center has been given administrative approval to serve as a central testing agency for the student body and applicants from the local area.

This centralization and extension of testing services will allow the Counseling Center to administer numerous national and restricted examinations and to administer tests for industrial firms and businesses hiring Clemson students.

The Counseling Center will continue to administer the aptitude, intelligence, personality, and other tests used daily in counseling Clemson students.

The expansion of the testing services will provide for the administration of the following specific tests:

(1) The Graduate Record Examination

December 14, 1968
January 18, 1969
April 26, 1969
July 12, 1969

In addition to the scheduled dates listed, colleges or schools may request through their respective deans and on recommendation from the Dean of the University that the Institutional GRE be given their respective departments and/or schools; arrangements to be made through the Counseling Center. The Institutional GRE has been discontinued at Clemson as a university-wide requirement.

(2) Architectural School Aptitude Test

October 19, 1968
January 4, 1969
March 29, 1969

(3) Dental Aptitude Test

October 4 or 5, 1968
January 10 or 11, 1969
October 10 or 11, 1969
January 9 or 10, 1970

(4) Admission Test for Graduate Study in Business

November 2, 1968
February 1, 1969
April 12, 1969

(5) Veterinary Aptitude Test

Date (s) to be scheduled.

COUNSELING CENTER EXPANDS TESTING SERVICES Cont.

(6) Medical College Admission Test

Arrangements pending.

(7) Entrance Examination for Schools of Pharmacy

Arrangements pending.

(8) Law School Admission Test

Arrangements pending; dependent upon local need.

(9) Miller Analogies Test
Minnesota Engineering Analogies Test
Doppelt Mathematical Reasoning Test

These tests will be given at any time by appointment;
appointment to be made by examinee.

(10) American Institute of Certified Public Accountants, Aptitude
and Achievement Tests

These tests will be given at the examinee's request.

(11) Tests for students transferring to other colleges or universities;
arrangements to be made upon examinee's request.

(12) Tests for industrial firms and businesses hiring Clemson students;
(arrangements to be made by industrial firms and businesses).

All of the tests included in the above list will be given on a fee basis. Further information concerning the tests, dates, fees, etc., may be obtained from the Counseling Center, Room 20 Tillman Hall, extensions 408 and 409. Deans and Department Heads will be notified of any additions or changes in the testing schedule.

LOCAL ALUMNI OBSERVE CLEMSON WEEK

Henry Coleman, board chairman of the Commercial Bank of Daytona Beach, Florida, will speak at the Fort Hill Clemson Club's second annual Clemson Week Around the World ladies night banquet Wednesday evening, April 17, at Clemson House.

A prominent U. S. executive, Mr. Coleman is a director and national vice president of the U. S. Chamber of Commerce. A Clemson alumnus, he has a sincere and abiding interest in the University and its Alumni Association, serving previously as national president of the Association and presently as a trustee of the Clemson Foundation.

Clemson Week is celebrated annually in April by alumni, IPTAY, and friends of the University all over the world. Here at home on the campus the evening will begin at 7:00 with a reception at Clemson House; dinner will follow at 8:00 o'clock. Tickets are available from club officers and at the Trustee House at Clemson.

MINUTES OF THE FACULTY SENATE

February 27, 1968

The Faculty Senate met for a regular monthly session on February 27, 1968, in Olin Hall Auditorium, beginning at 4:19 p.m. President James N. Thurston presided. Business during the meeting consisted mainly of reports by committee chairmen and by the president. In addition, the minutes of the January meeting were considered and approved as circulated.

The Chairman of the Admissions and Scholarship Committee, R. C. Harshman, discussed a number of questions which had been directed to the committee for study. The most pressing problem brought before the committee, he indicated, concerned quizzes and examinations scheduled at unauthorized times. The spring examination schedule, he said, should be available within a week, would involve a minimum bunching of students, and would require no special examinations for graduating students. He stressed the importance of adhering to the schedule and urged all faculty to follow it as published. Another question which the committee had investigated was that of raising the grade-point requirement for senior standing above the present 1.7 since the requirement for graduation in 1968-69 will be 2.0; an increase has been planned by the Registrar, Dr. Harshman reported, after data are available on students' performance for 1967-68. Other questions before the committee are (1) the possibility of changing preliminary grade reports, (2) re-examination of attendance regulations, (3) the clarification of readmissions policies, and (4) standardization of the academic calendar. Another question which may come before the committee soon, Dr. Harshman thought, is the possibility of applying a Pass/Fail system of grading to a limited number of courses taken by a student outside his discipline; such a recommendation has been made to the administration by the Student Senate.

On behalf of the Policies Committee, its Chairman, J. G. Dinwiddie, presented two proposals to the Senate for consideration. The first was concerned with the creation of "an orderly, established procedure" which would involve the faculty in the selection of academic administrators. It read as follows:

The role of the faculty in the choice of academic administrators for any unit of the University is one of consultation and advice. That role is best fulfilled through an orderly, established procedure, applied judiciously each time a vacancy occurs in the academic administration. Therefore we propose the following procedure.

When an academic administrative position in any area or unit of the University is to become vacant or becomes vacant suddenly by creation of a new position, resignation, retirement or any other contingency, a committee of the faculty shall be created to make recommendations for the filling of the vacancy.

The members of the committee shall be selected by the academic administrator next in authority over the position being filled in conjunction with the Committee on Committees of the Faculty Senate. The committee shall consist of from three to ten members and shall be representative of the faculty of the division of the University that will be administered by the administrator being selected. In the event the administrator will also be administering non-academic areas of the University, the Committee on Committees will be involved only in the selection of that portion of the committee representing the academic areas. The committee itself may add, with the approval

MINUTES OF THE FACULTY SENATE Cont.

of the administrator involved in the selection of the committee, a minority of additional members from outside the division involved if it deems it desirable.

The administrator selecting the committee shall convene it and serve as its temporary chairman until the committee establishes its own organization.

The committee will receive nominations and suggestions for candidates for the position, adding any others whom it thinks should be considered. After it has examined all candidates according to its own procedures it will submit a list of the most acceptable persons to the academic administrators responsible for the final choice.

Upon the filling of the position the committee shall destroy its records and be officially discharged.

Following considerable discussion, the proposal was approved by a show of hands. Only one person, J. M. Wannamaker, had expressed opposition to it. He asked to be identified by name and indicated that it conflicted with his opinions on management theory.

The second proposal presented by Dr. Dinwiddie from the Policies Committee was a revised twelve-month payment plan. An optional plan, it featured a simple form to be used by a faculty member electing it instead of the nine-month payment plan. It, too, was approved by a show of hands.

President Thurston's report covered a variety of topics. He announced (1) that the Educational Council had accepted the Senate's proposal to shift responsibility of approving candidates for graduation from the general faculty to the faculty of the colleges, (2) that the committee on the University Union has been activated and is discussing, among other things, the Faculty Club, (3) that he had appointed to the Speakers' Bureau for one-, two-, and three-year terms, respectively, J. V. Reel, A. J. Kaufmann, and J. G. Dinwiddie, (4) that the project of Faculty Evaluation is now in the hands of Student Government and is apparently standing still, (5) that Vice-President W. Wright Bryan is working on the proposal to identify campus buildings, (6) that the setting of standards for continued enrollment in individual departments seemed appropriate, according to Dean Hurst, (7) that the revised national draft policy probably would bring about a decline in the number of graduate students, (8) that a merger between the Faculty Research Council and the Faculty Senate had been proposed by the Council, and (9) that an announcement of vacancies on the Faculty Senate would be made from Dean Hurst's office soon.

Immediately before adjournment at 5:22 p.m., S. M. Lukawecki reported briefly on the work of the Faculty Club Committee. The University Union, he said, is being designed, not for physical recreation, but for relaxing, and lounging and dining.

Respectfully submitted,

Rameth Owens (Mrs. Walton H., Jr.)

Absent: H. Brantley, E. B. Eskew, Harriet Holman, S. F. Hulbert, A. K. Jensen, A. F. Newton, J. E. Pinckney, T. L. Senn, J. M. Wannamaker

MINUTES OF THE RESEARCH FACULTY COUNCIL MEETING

March 19, 1968

The monthly meeting of the Research Faculty Council was called to order at 4:00 p.m. in Room No. 28 of Tillman Hall by Chairman Fox.

Members absent were: H. H. Macaulay, L. O. Van Blaricom and S. F. Hulbert.

The minutes of the February 20, 1968 meeting were approved as circulated.

Dr. Fox reported several items of Council interest from a meeting with Dean Hurst. One of these of record concerned housing for graduate students during vacation periods. Efforts to bring this matter to a satisfactory conclusion still are under way.

Following an introductory statement by Dr. Fox on the values, not only to the Faculty but to the University Administration, on Faculty Senate and Research Faculty Council unification, the motion was made by Dr. E. M. Lander and seconded by Dr. J. J. Porter that a joint committee be established between the Faculty Senate and the Research Faculty Council to study the possibilities of such unification.

W. P. Byrd, Chairman of the Ad Hoc Committee on Pay Scales for Research Technicians, submitted the following report from his committee (L. O. Drew and W. B. Barlage, Jr.):

Pay Scales for Nonprofessional Personnel
Assisting in Research

Since a solution to the problem was being actively pursued through the various Directors of Research and the Director of University Research, this committee has simply attempted to keep informed of the progress and make its time available if needed.

Dr. Brownley has indicated that several new position classifications have been approved through the Personnel Office and have been reported back to the Deans. Also, two or three which have been requested have not been reported out yet.

The committee is aware of the job questionnaire request on a state basis but does not know how this will affect the program at Clemson. It is hopeful that the program already under way to set up adequate classifications to attract and hold qualified persons will be strengthened by this new statewide program of job classification.

MINUTES OF THE RESEARCH FACULTY COUNCIL MEETING Cont.

U. S. Jones presented a statement prepared by the Policy Committee (U. S. Jones, L. O. Van Blaricom, E. M. Lander, and L. Brown) concerning Guidelines for Classified Contract Research. After considerable discussion and explanation of points in the statement, the motion was passed to accept and forward the following report to Dean Brownley:

Guidelines for Acceptance of Classified Research Contracts

Certain types of research contracts with government or private business require that the results be kept confidential by the sponsor and the University. An example of a classified government contract might be one involving atomic energy research. An example of a classified private business contract might be one involving proprietary products or processes whose identity the sponsor does not wish to divulge.

Classified research should continue but it should be subject to limitations and review. Therefore, guidelines for classified research proposals are herein set forth by which the University's senior research officer will review and accept or decline classified research contracts.

The key consideration in any classified contract research should first be that "The University Reserves the Right to Determine Policies as to the Publication of the Results Obtained from the Proposed Research." Prior to the signing of a contract, the University and the sponsor will negotiate a policy agreeable to both. The agreement should be in writing and should include a time limit for restriction of publication, preferably upon the termination of the contract. Contracts are usually made for one or two year periods and are renewable by mutual agreement.

The following additional guidelines for acceptance of classified research proposals are also recommended:

1. The contract should not restrain the freedom of the University to disclose the existence of the contract or the identity of the sponsors.
2. The contract should not restrict the University's freedom to disclose the purpose and scope of the proposed research to the degree needed to permit informed faculty discussion of its potential contributions to the body of knowledge on the subject in question.
3. The nature of the research should provide a reasonable possibility that it will make a contribution either to the advancement of knowledge and/or technology or to the enlargement of the research capability to the investigator.

MINUTES OF THE RESEARCH FACULTY COUNCIL MEETING Cont.

4. These guidelines shall in no way restrict the University from negotiating a classified research contract that is aimed toward the defense of the nation or the improvement of national security.

The meeting was adjourned at 5:20 p.m.

Respectfully submitted,

Averett S. Tombes
(in the absence of S. F. Hulbert)

AST:sbw

SEASON TICKET APPLICATIONS FOR 1968-69 ATHLETIC EVENTS

Faculty and staff athletic season ticket applications have been distributed to deans and department heads. If you have not received an application contact your supervisor or the athletic department. Deadline for ordering season tickets is May 15, and orders should be returned as soon as possible to the athletic department. Faculty and staff leaving the campus for the summer should complete and return their application before their departure.

GIFTS AND GRANTS

--Pioneer Corn Company, \$1,100 grant to Pee Dee Station, for research on corn performance trials.

--Chas. Pfizer and Company, \$3,000 grant to Entomology (Animal Science cooperating), for research involving efficacy of Banminth against gastrointestinal parasites of swine.

--Pickle Packers International, Inc., \$400 grant to Truck Station, for brining of experimental pickle lines.

--National Science Foundation, \$35,700 to the Department of Chemistry and Geology, for the purchase of chemistry research instruments.

PERSONAL MENTION

--Virginia S. Hardie, John Anderson, and Carolyn Morgan (Counseling Center Staff Members) will present a research study entitled "A Five Year (1963-68) Evaluation of Counseling Services at Clemson University" at the South Carolina Psychological Division Meeting, South Carolina Academy of Science, at the University of South Carolina on April 27.

--A. R. Pinder (Chem) presented a lecture at the School of Chemistry, Georgia Institute of Technology, March 8.

--J. F. Allen (Chem) taught a short course, "Radiochemistry," at Stetson University, sponsored by Oak Ridge Associated Universities, February 25-March 2.

--J. G. Dinwiddie (Chem) presented a lecture at the Department of Chemistry, Asheville-Biltmore College, March 28.

--Norman Olsen (Engl) was one of four panelists at the annual meeting of the South Carolina Council of Teachers of English, Dreher High School, Columbia, March 23.

--Hugh Macaulay (Econ) served as a consultant representing the Council of Graduate Schools in the United States to evaluate a proposed Master of Arts degree program at Cleveland State University, February 7-8.

--F. R. Gray (IM) and H. J. Wheeler (Econ) attended a symposium on Economic Policy and Regulation of Corporate Securities co-sponsored by the George Washington University Law School and the American Enterprise Institute in Washington, March 7-8.

--Harry J. Keegan (IM-TS) presented a paper entitled, "Color Measurement Program at Clemson University," at the Color Measurement Course conducted in Charlotte, N. C., March 5-6 by the Instrument Development Laboratory, Kollsmorgen Corporation.

--Harry J. Keegan (IM-TS) lectured to employees of the laboratory staff on "Spectrophotometry and Colorimetry" at Mohasco Industries, Inc., Amsterdam, New York, March 10-12.

--Harry J. Keegan (IM-TS) presented a paper at the American Astronautical Society, Symposium on Water Resources of the Inner Planets, Las Vegas, Nevada, April 10-12.

--B. R. Skelton (Econ) had a paper entitled, "Factors Affecting the Competitive Potential of the Piedmont Crescent," published in The Clemson University Review of Industrial Management and Textile Science.

--W. D. Trevillian (IM-TS) has been appointed to serve as a member of the Small Business Advisory Council of South Carolina (a division of the USA Small Business Administration).

--Harvey E. Morgan, Jr., (IndEd) was elected Historian of the Iota Lambda Sigma Fraternity at the National Convention held in Cleveland, Ohio, Dec. 1-8, 1967.

PERSONAL MENTION (Cont'd)

--H. G. Clark (IM-TS) presented a paper entitled, "Blood-Synthetic Polymer Interactions," with L. D. Ikenberry and R. G. Mason co-authors, at a symposium on Cleaning Polymer Surfaces for Interfacial Studies, April 8, Raleigh, N. C.

--Rob Roy McGregor (French at Greenville TEC) had an article entitled, "Voltaire's Animaux Fabuleux of the Old Testament," published in Romance Notes, VIII, 2, 1967.

--M. J. B. Paynter (ESE) presented a seminar entitled, "Some Studies on Two Rumen Micro-organisms, Selenomonas ruminantium and Methanobacterium mobilis n. sp." at the Department of Environmental Sciences and Engineering, School of Public Health, University of North Carolina, Chapel Hill, March 29.

--T. C. Hardin (ME) attended the Regional Mechanical Engineering Department Heads Convention at the University of Florida, Gainesville, Florida, March 28-31.

--G. C. Robinson (CrE) presented a talk on "The Wedgewood Champion Fight" at the Southeastern Section meeting in Spartanburg, March 22.

--W. E. Castro (EM) has been awarded a NASA Faculty Fellowship at Marshall Space Flight Center in Huntsville, Alabama, for the summer of 1968, June 10 - Aug. 15.

--C. F. Lam (EE) presented a paper, "Analog Modeling and Simulation of the Nerve-Muscle System," at the Sixth Symposium on Biomathematics and Computer Science in the Life Sciences, Houston, Texas, March 15.

--R. N. Kersey (EE), J. C. Martin (EE) and R. W. Snelsire (EE) attended ASEE Symposium on Effective Teaching, hosted by Georgia Tech., Atlanta, Ga., April 1-2.

--C. V. Aucoin, W. R. Hare, Jr., T. G. Proctor, J. W. Kenelly (Math.) attended the annual meeting of the Southeastern Section of Mathematical Association of America on March 29 - 30 at East Carolina University, Greenville, N. C. Papers presented are as follows: Aucoin - "Committee on the Undergraduate Committee in Mathematics Recommendations on a General Mathematics Curriculum." Hare - "Undergraduate Research Participation: Report of a Project in 1967." This paper was co-authored with J. W. Kenelly. Proctor co-authored a paper presented by G. W. Marrah, entitled, "Successive Approximations for a Class of Functional Differential Equations."

--C. V. Aucoin (Math.) visited Morris College in Sumter, S. C. April 2 and 3 and presented two lectures entitled "Discreet Probability" and "Game Theory."

--C. V. Aucoin (Math.) was principal speaker at Honors and Awards Day at the Sumter Branch of Clemson University on April 3.

MAY 30 1968



CLEMSON NEWSLETTER

INFORMATION FOR THE STAFF OF CLEMSON UNIVERSITY

Vol. 7 No. 17

May 1, 1968

CALENDAR: MAY 1 - AUGUST 15, 1968

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|-------|----|---|
| May 2 | Th | Graduate Council - 11 a.m., 28 Tillman Hall
Educational Council - 2 p.m., President's Office
Faculty meetings of individual colleges and schools - 3 p.m.
Academic Faculty - 4 p.m., Auditorium of Brackett Hall |
| May 2 | Th | Baseball - at University of North Carolina |
| May 3 | F | Seminar on "Shock and Vibration Considerations in Design" sponsored by the Department of Mechanical Engineering, Clemson University. The purpose of the program is to present ways of improving the design of mechanical and structural systems by careful analysis of shock and vibration and to give the practicing engineer concepts which will benefit him in continuing his education in the realm of shock and vibration as it relates to mechanical and structural design. Appearing on the program will be Professor D. W. Bradbury, Dr. M. K. Richardson, Dr. C. S. Rudisill, and Dr. E. Harrison. |

Also featured will be a luncheon with a talk on "New Horizons in Ceramics" by Professor G. C. Robinson, Head, Ceramic Engineering Department, Clemson University.

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|----------|-------|--|
| May 3 | F | Baseball - at North Carolina State (2 games) |
| May 3-4 | F-Sat | Marine Corps Relays - at Quantico, Virginia |
| May 4 | Sat | Baseball - at Georgia Tech |
| May 4 | Sat | Commissioning Exercises, 11 a.m., Tillman Hall Auditorium |
| May 4 | Sat | President's Reception for graduates and their families - 2:30-3:30 p.m., President's Home |
| May 4 | Sat | Commencement Exercises, 5 p.m., Outdoor Theatre |
| May 6-10 | M-F | School of IM-TS Professional Development Courses
P.D. 96 - Color Measurement Seminar
P.D. 88 - Clemson University's (First Annual) Textile Marketing Forum |
| May 6 | M | Baseball - at University of Georgia |
| May 7 | T | Baseball - at University of South Carolina (2 games) |

May 7	T	Sage Club Dinner Meeting - 6:30 p.m., Clemson House
May 8-9	W-Th	Baseball - at East Carolina
May 9-11	Th-Sat	Tennis - ACC Tournament at College Park, Maryland
May 10-11	F-Sat	Track - ACC Meet at Chapel Hill
May 10	F	Baseball - at Wake Forest
May 11	Sat	Baseball - at Duke University (2 games)
May 12	Sun	Mother's Day
May 12	Sun	Last day for December graduates to order rings
May 13	M	Baseball - at George Washington University
May 13-June 20		First Summer Session
May 13	M	Matriculation and registration for First Summer Session
May 13-14	M-T	ACC Golf
May 13-18	M-Sat	School of IM-TS Professional Development Course P.D. 22 - Introduction to Textile Manufacturing
May 13-24	M-F	School of IM-TS Professional Development Courses P.D. 26 - Introduction to Yarn Manufacturing P.D. 41 - Methods Analysis and Time Study P.D. 43 - Basic Textile Chemistry P.D. 47 - Quality Control P.D. 35 - Polymer Chemistry
May 14	T	Classes begin
May 14	T	Baseball - at University of Maryland
May 15-17	W-F	S. C. WATER AND POLLUTION CONTROL ASSOCIATION SHORT SCHOOL - About 160 operators of water and waste treatment facilities in cities and industrial plants in South Carolina will attend the annual short school of the S. C. Water and Pollution Control Association at Clemson University, May 15-17, 1968.

For the operators, the three days of intensive instruction will mark the culmination of studies offered by the Water and Pollution Control Association. They will study new methods and processes of water and waste treatment, problems which occur in treatment plants, and take examinations for certification and licensing.

Teaching staff for the school includes 10 Clemson professors, visiting faculty, members of the State Board of Health, and outstanding workers from treatment plants in state municipalities.

May 15	W	Baseball - at University of Virginia (2 games)
May 17	F	Last day for filing GS ⁴ , "Admission to Candidacy for a Degree" for those who expect to receive Master's degree on August 3
May 18	Sat	Armed Forces Day
May 18	Sat	No classes
May 21	T	Faculty Research Council, 28 Tillman Hall
May 25	Sat	No classes
May 25	Sat	Track - ACC vs SEC
May 30	Th	Memorial Day
June 1	Sat	No classes
June 3-7	M-F	School of IM-TS Professional Development Courses P.D. 65 - Hospital Executive Development P.D. 79 - Session 1-Clemson University's Graduate Seminar in Industrial Administration
June 3-14	M-F	School of IM-TS Professional Development Courses P.D. 38 - Supervisor Development P.D. 56 - Weaving: Fabric Design and Development P.D. 27 - Advanced Yarn Manufacturing P.D. 44 - Advanced Textile Chemistry
June 6-9	Th-Sun	Alumni Reunions on Campus
June 6	Th	Clemson Foundation Meeting, Blue Room, Clemson House, 3 p.m.
June 6	Th	Alumni President's Reception for Foundation Trustees and National Councilmen, Clemson House Penthouse, 8:30 p.m.
June 7	F	Alumni National Council Meeting, Purple Room, Clemson House, 10:30 a.m.
June 7	F	Registration begins on campus for Reunion Weekend activities, Student Center Loggia, 10:30 a.m. - 10:00 p.m.
June 7	F	Joint Luncheon - Clemson Foundation Trustees and National Council, Gold Room, Clemson House, 12:30 p.m.
June 7	F	Luncheon - Wives of Alumni National Councilmen and Clemson Foundation Trustees, Blue Room, Clemson House, 12:30 p.m.
June 7	F	"State of the University" report by President Edwards to National Council and Clemson Foundation in joint session, Gold Room, Clemson House, 1:30 p.m.

June 7	F	National Council business session resumes, Purple Room, Clemson House, 2:30 p.m.
June 7	F	Executive Committee of Alumni Association meets (if required), Blue Room, Clemson House
June 7	F	President's Reception for alumni, faculty, wives and guests, President's Home, 8:00-10:00 p.m.
June 7	F	Last day to order a diploma for those who expect to receive graduate degrees on August 3
June 8	Sat	Registration for all visiting Alumni continues, Student Center Loggia, 8:00 a.m. - 4:00 p.m.
June 8	Sat	Ladies Reception for all visitors and guests, Student Center Lounge, 10:00 a.m.
June 8	Sat	Alumni General Assembly, Chemistry Building Auditorium, 2:30 p.m.
June 8	Sat	Annual Alumni Banquet, University Dining Room, 6:30 p.m.
June 8	Sat	No classes
June 8	Sat	Foreign Language Examinations
June 10-14	M-F	School of IM-TS Professional Development Course P.D. 79 - Session 2-Clemson University's Graduate Seminar in Industrial Administration
June 15	Sat	No classes
June 16	Sun	Father's Day
June 19-20	W-Th	Examinations
June 22	Sat	No classes
June 24-Aug. 3		Second Summer Session
June 24	M	Matriculation, new students
June 25	T	Matriculation and registration
June 26	W	Classes begin
June 29	Sat	Classes meet
June 29	Sat	Last day for those who expect to receive the Doctor of Philosophy degree on August 3 to present completed dissertation to student's advisory committee
July 4	Th	Last day to drop a subject without record of drop

July 13	Sat	Foreign Language Examinations
July 15-26	M-F	School of IM-TS Professional Development Course P.D. 41 - Methods Analysis and Time Study (a repeat of May 13-24 course)
July 20	Sat	Last day for final oral and/or written examinations for those who expect to receive graduate degrees on August 3
July 22-26	M-F	School of IM-TS Professional Development Course P.D. 96 - Color Measurement Seminar
July 27	Sat	Final date for August 3 graduate degree candidates to submit thesis or dissertation to the Graduate Office
July 31-Aug. 1		Examinations
Aug. 3	Sat	Summer graduation

NEWSLETTER

The next issue of the Newsletter will be published on August 15, 1968. News items will be accepted over the summer by Dr. Claud B. Green, Assistant Dean of the University, Room 28, Tillman Hall.

SOUTHERN ASSOCIATION VISITATION TO CLEMSON UNIVERSITY AT SUMTER

On April 16-18, a Visitation Committee from the Southern Association of Colleges and Schools met on the campus of Clemson University at Sumter. The Committee was composed of Dr. David J. Middleton, Chairman of East Carolina University, Miss Bethel Fite of the University of Alabama, and Dr. Charles O. Jones of Florida State University.

The report of the Committee will be made to the College Delegate Assembly of the Southern Association.

SEASON TICKET APPLICATIONS FOR 1968-69 ATHLETIC EVENTS

Faculty and staff athletic season ticket applications have been distributed to deans and department heads. If you have not received an application contact your supervisor or the athletic department. Deadline for ordering season tickets is May 15, and orders should be returned as soon as possible to the athletic department. Faculty and staff leaving the campus for the summer should complete and return their application before their departure.

COMMENCEMENT DAY ACTIVITIES - MAY 4, 1968

1. The Faculty will meet in the hall of Main-Building at 4:30 p.m., Saturday, May 4. Please report directly to your school or college marshal as indicated below:

Platform Party -- Walk in front of Main Building

Agriculture: Prof. J. M. Stepp -- South hall of first floor, Main Building

Engineering: Prof. I. A. Trively -- North hall and porch of Main Building

Industrial Management and

Textile Science: Prof. T. A. Campbell -- Aisle next to stage in Auditorium

Arts and Sciences: Prof. H. M. Cox -- Main aisle in Auditorium

Architecture: Prof. E. A. Gunnin -- On stage of Auditorium

Education: Prof. L. H. Davis -- Walk by President's Office

2. The Faculty are requested to observe certain uniformities respecting the clothing worn with academic attire:
 - a. Women should wear dark dresses and dark shoes with low or medium heels. Men should wear dark shoes and preferably dark trousers. Coats need not be worn except in the case of those wearing Master's gowns; dark coats or blouses with dark sleeves are needed with these.
 - b. Caps should be worn with the long point to the rear; the tassel should be hanging forward to the left.
 - c. Faculty and candidates should march in an orderly and dignified fashion, maintaining an interval of one arm's length from the person in front.

3. The Graduation Ceremony - 5:00 P.M. - Outdoor Theater

Our Commencement speaker this year will be Dr. H. J. Nimitz, Superintendent, Dunham Hospital, Cincinnati, Ohio

4. The Army and Air Force ROTC Commissioning Ceremonies will be held at 11 a.m. in University Auditorium. Lt. General Robert H. York, Commander, XVIII Airborne Corps and Fort Bragg will speak. All are invited to attend.
5. There will be a reception honoring graduates at 2:30 p.m. at The President's Home. Graduates, parents, wives, friends, and the faculty invited to attend.

(In the event of rain Commencement exercises will be held in the Field House with the faculty assembling in the Little Gymnasium in rear of graduates.)

ALUMNI REUNION WEEKEND COMING UP

Clemson faculty and staff and their wives are invited to attend an informal reception at the President's Home, Friday evening, June 7, from 8:00 to 10:00 p.m. President and Mrs. Edwards will be hosts to visiting alumni, their wives and guests, who will be on campus for reunion activities June 6, 7, 8, and 9. Faculty and staff are also invited to join in the other alumni activities whenever they can.

The 71st General Assembly of Clemson Alumni will convene at 2:30 p.m. Saturday, June 8, in the Chemistry Auditorium. The annual business session will include remarks from University President Robert C. Edwards and an athletic report from Athletic Director Frank Howard. National Alumni President Harper Gault of Rock Hill will preside.

Tickets are now on sale at the Alumni Office in the Trustee House for the Alumni Banquet to be held in the University Dining Room, Saturday evening, June 8, at 6:30 p.m. Faculty and staff may purchase their tickets in advance or obtain them the day of the banquet on the loggia of the Student Center.

Five Distinguished Service Awards will be presented at the conclusion of this year's banquet. Those to be honored with the Alumni Association's highest award are: Julian Dusenbury '42, Dr. James Gee '17, Howard D. Nottingham '35, Jesse White '24, and Claude Hayden '12.

THE UNIVERSITY BOWLING LEAGUE

The University Bowling League completed its successful 1967-68 season on April 17, 1968. The league consisted of ten (10) teams whose membership represented faculty, graduate students and/or combinations of both.

End-of-season position play-offs were held on April 17th at Timberlanes Bowling Alleys, Seneca. The top three teams for the season were:

First place, "Copros," (Agriculture Graduate students)
Second place, "Snarfs," (Physics Graduate students)
Third place, "Army ROTC"

The following officers were elected for the 1968-69 season:

President - J. T. Long, E.E.
Vice President - T. H. Garner, Agr. Eng.
Secretary-Treasurer - W. N. Shepherd, Army ROTC

Anyone interested in bowling, next season, please contact the newly elected officers. Inquiries and/or volunteers are always welcome.

ANNUAL REPORT OF THE RESEARCH FACULTY COUNCIL
TO THE CLEMSON UNIVERSITY RESEARCH FACULTY

22 April 1968

The Clemson University Research Faculty Council convened in
May with the following officers and representatives:

Chairman: Richard C. Fox, College of Agriculture and
Biological Sciences

Vice-Chairman: G. R. Craddock, College of Agriculture and
Biological Sciences

Secretary: S. F. Hulbert, College of Engineering

Representatives: College of Agriculture & Biological Sciences

W. P. Byrd
L. O. Drew
U. S. Jones
W. C. Mickelberry
A. S. Tombes
L. O. Van Blaricom

College of Arts and Sciences

M. B. Bishop
E. M. Lander
H. H. Macaulay

College of Engineering

W. B. Barlage
M. J. B. Paynter

School of Industrial Management & Textile Science

J. J. Porter
J. V. Walters

School of Architecture

L. H. Brown

ANNUAL REPORT OF THE RESEARCH FACULTY COUNCIL Cont.

The announcement was made that, as retiring Chairman of the Research Faculty Council, Dr. A. E. Schwartz would deliver the Clemson University Commencement address in August.

Committee assignments were made for the year:

Policy: U. S. Jones, Chairman; L. H. Brown, E. M. Lander and
L. O. Van Blaricom

Personnel Relations: M. B. Bishop, Chairman; W. P. Byrd, L. O.
Drew, M. J. B. Paynter and J. V. Walters

Dean Hurst appointed Research Faculty Council representatives to serve on the following University standing committees:

W. B. Barlage	Faculty Basic Research Committee
A. S. Tombes	Fine Arts Series
W. C. Mickelberry	University Patent Committee
J. J. Porter	Graduate Council
S. F. Hulbert	Faculty Senate
R. C. Fox	Library Committee

At the July meeting, the establishment of a University Ad Hoc Safety Committee was announced and Dr. Muriel Bishop was appointed as the Council representative to this committee. Also appointed to act as tour guides during the New Faculty Orientation Program were: G. R. Craddock, A. S. Tombes, W. B. Barlage, E. M. Lander and S. F. Hulbert.

Dr. W. P. Byrd announced that the Computer Center's Sub-Committee for Teaching and Research solicits the advice and recommendation of all faculty members and asked that all faculty members submit their recommendations through their representative on the Sub-Committee.

At the August meeting, Council members who served as tour guides during the New Faculty Orientation Program were commended and asked for their comments on the success of the tour. Several of these were forwarded to Dean Hurst for consideration in planning the 1968 tour.

The Policy Committee was asked to review present procedures for Out-of-State Travel approval.

Dr. M. B. Bishop announced at the September meeting that the University Ad Hoc Safety Committee (consisting of E. M. McCarter, Chairman; C. E. Littlejohn, M. B. Bishop, T. D. Efland, N. R. Page, and J. A. Stanley) was in the process of writing a safety code. The need for a full-time safety inspector was discussed and the consensus of the Council was to support this appointment.

ANNUAL REPORT OF THE RESEARCH FACULTY COUNCIL Cont.

At the October meeting, the Policy Committee presented a report on out-of-state travel regulations. After discussing short notice meeting approvals, the Council voted to follow existing regulations until such time as their mechanics warranted a change. The Policy Committee was commended for their efforts.

Following preliminary study during August and September, Chairman Fox appointed an Ad Hoc Committee (W. P. Byrd, Chairman; W. B. Barlage and L. O. Drew) to study pay scales for technicians assisting research faculty members.

Dr. Fox reported on his trip to Boston University to represent Clemson University at the inauguration of President Christ-Janer.

At the November meeting, it was announced that the Personnel Office had offered its full cooperation to the Ad Hoc Committee studying the problem of pay scales for non-professional personnel.

The Council unanimously supported the Faculty Senate resolution on the establishment of faculty facilities in the new University Union Building. A. S. Tombes and S. F. Hulbert were appointed to serve on a committee with representatives from the Senate to develop a more detailed proposal to submit to the Administration.

J. W. Weeden, Chief of Security, spoke to the Council on parking problems and long-range plans on the campus.

Due to scheduling difficulties, the December meeting was cancelled.

Mr. John Gentry briefed the Council at the January meeting on matters under consideration by the Personnel Office.

It was announced that a joint committee consisting of R. T. Reep and S. M. Lukawecki, Faculty Senate; and A. S. Tombes and S. F. Hulbert, Research Faculty Council, had been appointed to prepare a proposal for faculty facilities in the new University Union.

The Policy Committee was asked to prepare a policy statement concerning classified research contracts to submit to Dean Brownley.

The resignation of L. O. Drew and W. C. Mickelberry in January necessitated a special election in the College of Agriculture and Biological Sciences to provide replacements. G. C. Kingsland (Botany) and J. W. Hubbard (Ag. Econ) were elected to fill these unexpired terms and were welcomed to the February meeting. Dr. Hubbard was appointed to serve on the Personnel Relations Committee and Dean Hurst appointed Dr. Kingsland to serve on the University Patent Committee.

ANNUAL REPORT OF THE RESEARCH FACULTY COUNCIL Cont.

After lengthy study and discussion at this and previous meetings, the following resolution was approved by the Council:

"The Research Faculty Council recommends that the University make dormitory facilities available for all graduate students who find it necessary to remain on campus during holidays."

At the March meeting, several items of Council interest were reported. One of record indicated that the problem of housing for graduate students during vacation periods was under advisement and efforts to bring this matter to a satisfactory conclusion still are under way.

The subject of unification of the Senate and Council was broached again and after discussion, the motion was passed to establish a joint committee between the two bodies to study the possibilities of such unification.

W. P. Byrd, Chairman of the Ad Hoc Committee on Pay Scales for Research Technicians, submitted the following report from his committee (L. O. Drew and W. B. Barlage, Jr.):

Pay Scales for Nonprofessional Personnel
Assisting in Research

Since a solution to the problem was being pursued actively through the various Directors of Research and the Director of University Research, this committee has attempted simply to keep informed of the progress and make its time available if needed.

Dr. Brownley has indicated that several new position classifications have been approved through the Personnel Office and have been reported back to the Deans. Also, two or three which have been requested have not been reported out yet.

The Committee is aware of the job questionnaire request on a state basis but does not know how this will affect the program at Clemson. It is hopeful that the program already under way to set up adequate classifications to attract and hold qualified persons will be strengthened by this new statewide program of job classification.

U. S. Jones, Chairman of the Policy Committee, presented a statement prepared by his committee (L. O. Van Blaricom, E. M. Lander, and L. H. Brown) concerning Guidelines for Classified Contract Research. After considerable discussion and explanation of points in the statement, the motion was passed to accept and forward the report to Dean Brownley.

Serving out their terms at the March meeting were: M. B. Bishop, G. R. Craddock, U. S. Jones, H. H. Macaulay, M. J. B. Paynter and J. V. Walters. They were commended by the Council for their efforts during their terms of office.

ANNUAL REPORT OF THE RESEARCH FACULTY COUNCIL Cont.

The membership of the Research Faculty consisted of 241 staff members for the year 1967-1968.

New members, whose terms will expire in 1971, were elected to the Research Faculty Council in March:

College of Agriculture and Biological Sciences: J. J. Janzen, M. W. Jutras

College of Arts and Sciences: J. C. Fanning, H. W. Graben

College of Engineering: G. F. Meenaghan

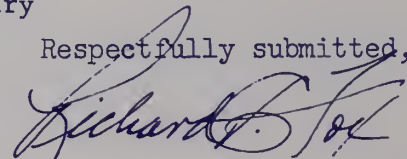
School of Industrial Management & Textile Science: R. H. Barker

As an item of interest, the University Ad Hoc Safety Committee released the University Safety Code Manual in early April, along with the announcement that a position of full-time coordinator - the University Safety Coordinator - would be established soon. Also, a new University standing committee - The Safety and Fire Prevention Committee - would be appointed in the near future. A tremendous amount of work has gone into this Manual and all University employees should be encouraged to be familiar with its contents.

Election of officers was held at the April meeting of the Council for the year 1968 - 1969. The new officers are:

S. F. Hulbert	-	Chairman
W. P. Byrd	-	Vice-Chairman
G. C. Kingsland	-	Secretary

Respectfully submitted,



Richard C. Fox, Chairman
Research Faculty Council

ANNUAL COMPETITION FOR OVERSEAS STUDY OPENS

On May 1st, the Institute of International Education will officially open its competition for 1969-70 United States Government and foreign graduate grants for academic study or research abroad, and for professional training in the creative and performing arts.

IIE annually conducts competitions for U. S. Government scholarships provided under the Fulbright-Hays Act as part of the educational and cultural exchange program of the U. S. Department of State, and for grants provided by various foreign governments, universities and private donors. Under these programs, more than 950 American graduate students will have an opportunity to study in any one of 50 countries. The purpose of the grants is to increase mutual understanding between the people of the U. S. and other countries through the exchange of persons, knowledge and skills.

Application forms and information may be obtained from the campus Fulbright Adviser, F. I. Brownley, Jr., Room 17, Tillman Hall.

GIFTS AND GRANTS

- Public Health Service, \$3,750 grant to Dr. Cyril O. Shuler (IM) to conduct a one week Professional Development course entitled "Hospital Executive Development June 3-7.
- Air Force Office of Scientific Research, \$68,411 to Dr. M. J. Skove (Phys) and Dr. E. P. Stillwell (Phys) to perform research entitled, "The Effect of Large Elastic Strain on Several Crystal Properties." This two year grant continues the AFOSR support for this research which has been in effect for the past five years.
- W. R. Grace & Company, \$1,500 to the Sandhill Station, Columbia, for use in peach tree fertilization studies.
- Skod Company, \$3,760 to Horticulture, for studies involving effect of seaweed products on horticultural crops.
- Amchem Products, Inc., \$2,000 to Sandhill Station, Columbia, for studies on peach growth regulators.
- Mix-Mill, Inc., gift of one mix mill valued at \$1,664 to the Animal Science Department to be used in studies involving experimental ration mixing for swine.
- Hoffmann-LaRoche, Inc., \$1,000 as supplement to amount given in February to the Poultry Science Department for use in fowl cholera research.
- Fisons Corporations, \$500 to Agronomy and Soils, for studies involving the use of NC-4780 as herbicide for weed control in soybeans.
- National Science Foundation, \$26,200 to Dr. F. B. Brown (Ch) for support of research entitled, "A Spectroscopic Study of Barriers to Linearity in Some Simple Nonlinear Molecules."
- S. C. Poultry Improvement Association, \$150 to Entomology and Zoology, for studies involving control of flies and anthropods on poultry.
- Carolina Golf Course Superintendents Association, \$250 to Horticulture, for evaluation of turf varieties.
- Hercules, Inc., \$1,000 to Horticulture, for studies involving use of Nitroform on peach trees.
- Stauffer Chemical Company, \$250 to Pee Dee Station, for studies involving tobacco wireworm.
- Union Carbide Corporation, \$750 to Agronomy and Soils, for evaluation of Sirmate for weed control in cotton and soybeans.
- John J. Ryan & Sons, Inc., \$2,000 to Food Science and Biochemistry, for microbiological studies.
- Carolina Golf Association, \$1,000 to Horticulture, for turf research.

PERSONAL MENTION

--W. D. Trevillian (IM-TS) served as chairman of the Governor's Conference on World Trade, which is sponsored by the S. C. Regional Export Expansion Council, held in Columbia on April 12.

--Marshall S. Hahn (InEd) attended a special lecture and discussion on Wednesday, March 27, at Asheville, North Carolina, on "Crafts--Standards and Markets." He attended the one-day meeting with the Committee of Seven and others interested in promoting hand crafts in the state of South Carolina. The group toured three separate marketing facilities and one production workshop.

--Marshall S. Hahn (InEd) attended a special craft workshop and seminar on April 1-3 at Berea, Kentucky. The special craft workshop was sponsored by The Southern Highlands Handicraft Guild and Berea College. Dr. Hahn participated in the furniture design workshop under Mr. Donald McKinley, nationally known designer and wood craftsman from Canada. Mr. McKinley is Master of the Wood Design Studio and Director of the School of Design of Sheridan College of Applied Arts and Technology.

--Lowery H. Davis (AgEd) presented a paper and demonstration, "MICRO-TEACHING, What It Is and Implications for Teacher Education" at Southern States Conference in Agricultural Education, Clearwater, Florida, April 11, 1968.

--Max D. Sherrill (Phys) presented a 30 minute invited talk entitled "A Review of Flux Motion in Type II Superconductors and Thin Films" on April 4 at the International Conference of Magnetics held in Washington, D. C. and sponsored by the IEEE.

--E. P. Stillwell (Phys), M. J. Skove (Phys) and J. H. Davis (former student in Physics) are authors of an article appearing in the February issue of the Review of Scientific Instruments entitled "Two Whisker Straining Devices Suitable for Low Temperature."

--Robert Sorrells (Engl) is the author of a short story entitled, "Drowning," in the Winter 1968 issue of the Western Humanities Review.

--Richard J. Calhoun (Engl) is the author of an essay, "Southern Poets--Past and Present," in the Spring 1968 issue of the Southern Review.

--Robert W. Hill (Engl) is the author of a poem entitled, "On the Death of a Poet, Buddy Godsey, and his Son," which appears in the Winter 1968 issue of the Arlington Quarterly.

--Claud B. Green (Assistant Dean of the University), H. M. Cox (Engl), and Norman Olsen (Engl) participated in the biennial meeting of the Southeastern Section of the American Studies Association held in Clemson April 4-6. Dr. Green was elected President of the Association for 1968-1970.

--John Idol (Engl) had an article on pedagogy in the December 1967 issue of College Composition and Communication.

--Kenneth N. Vickery (Director of Admissions and Registration) attended the 54th annual meeting of Collegiate Registrars and Admissions Officers in Philadelphia, Pennsylvania, April 16-19. Mr. Vickery is the group's vice president in charge of regional associations and membership.

--Robert T. Benson (Media Center) was one of four panelists on "Audio Visual Materials for Vocational Agriculture" at the annual meeting of materials development specialists at the Southern Agricultural Education Conference in Clearwater, Florida, April 11.

--Arthur Jensen (Media Center) presented a lecture on "What South Carolina is Doing to Provide Low-Cost Transparencies for Vocational Teachers" and one on "Cooperation Between Programs in Curriculum Materials" at the Southern Agricultural Education Conference at Clearwater, Florida, April 7-12.

--Arthur Jensen (Media Center) was elected vice president of the Subject Matter Section of the Southern Agricultural Education Conference at Clearwater, Florida, April 11.

--W. B. Owen and B. J. Prochaska (Math) attended joint meetings of the Eastern North American Region of Biometric Society, the American Statistical Association, and the Institute of Mathematical Statistics, and presented papers on April 8 at Blacksburg, Virginia. Dr. Owen's paper was entitled, "A Confidence Interval on an External Component of Variance," and Dr. Prochaska's paper was entitled, "A Characterization of the e,d -Topology in Random Normed Spaces."

--F. I. Brownley, Jr. (Graduate Dean) visited Louisiana Polytechnic Institute on April 28 as a member of the accrediting group from the Southern Association of Colleges and Schools.

--Claud B. Green (Assistant Dean) delivered the annual Byron Herbert Reece Lecture at Young Harris College on April 18. The subject of this year's lecture was the life and works of the Georgia writer, Lillian Smith.

--D. F. Bruley (ChE) presented a paper "Computer Simulation Showing Multiple Minute Hypoxic Areas as a Result of Sludged Blood," at the 81st Annual Session, The American Association of Anatomists, Tulane University School of Medicine, New Orleans, Louisiana, April 11, 1968. Co-authors were Dr. M. H. Knisely, Medical College of South Carolina, and Dr. D. D. Reneau, Louisiana Polytechnic Institute.

--W. B. Barlage (ChE) spoke to the Central North Carolina Section of the American Institute of Chemical Engineers April 11, 1968, on the Viscometry of Non-Newtonian Fluids.

--D. F. Bruley (ChE) received the 1968 Research Award of the Southeastern Section of the American Society for Engineering Education at the Section meeting in Blacksburg, Virginia, April 19, 1968. Dr. Bruley's research paper was judged best of all submitted from all engineering colleges in the Southeast.

--J. Campbell Martin (EE) presented a paper entitled "Does Modern Instrumentation Require Graduate School Education?" at the ISA Southeastern Conference on April 18, 1968.

--J. Campbell Martin (EE) presented a paper entitled "Extension of Kalman Filter Theory to Signal Estimation," 1968 Regional III, IEEE Convention, "Gateway to the Future" New Orleans, Louisiana, on April 23, 1968.

--H. V. Poe (EE) attended Region III, IEEE Convention, "Gateway to the Future" as counselor.

--L. C. Wilcox (EE), B. E. Gilliland (EE), A. O. Bishop (EE) and F. A. Dunlap (EE) attended the IEEE International Convention in New York, March 17 to 20, 1968.

--S. F. Hulbert (CrE) attended the Annual Meeting of the American Society for Artificial Internal Organs in Philadelphia, Pennsylvania, on April 21 and 22, 1968.

--S. F. Hulbert (CrE), D. A. Brosnan and R. H. Smoak (General Refractories Co.) presented two papers at the Annual Meeting of the American Ceramic Society in Chicago, Illinois, "Effect of Processing Parameters on the Kinetics of Reactions Between MgO and Cr_2O_3 " and "Mechanism of the Interaction Between MgO and Cr_2O_3 ."

--S. F. Hulbert (CrE) and H. H. Wilson (CrE) presented the paper entitled "Kinetics of Interaction Between MgO and Fe_2O_3 " at the Annual Meeting of the American Chemical Society.

--S. F. Hulbert (CrE), J. J. Klawitter, C. D. Talbert, and C. T. Fitts (Medical College of South Carolina) presented the paper entitled "Development of Ceramic Orthopedic Implants" at the Annual Meeting of the American Ceramic Society.

--S. F. Hulbert (CrE) attended the Bio Materials Symposia at Columbia University on April 26, 1968.

--D. W. Bradbury (ME) acted as a moderator of a presentation of designs of medical equipment developed and presented by senior design students in Mechanical Engineering at a meeting with members of the faculty and staff of the Medical College of South Carolina in Charleston.

--J. C. Fanning (Ch) presented a lecture to the Department of Chemistry, Presbyterian College, Clinton, South Carolina, April 4.

--P. I. Birkhead, V. S. Griffin, Jr., G. M. Haselton, and R. D. Hatcher, Jr. (Geol) attended the Southeastern Section Meeting of the Geological Society of America, April 4-6, at Durham, North Carolina. V. S. Griffin, Jr., presented a paper entitled, "Structural Styles Within a Portion of the Inner Piedmont of Western South Carolina." R. D. Hatcher, Jr., presented a paper entitled, "Fold Mechanics in the Dumlplin Valley Fault Zone in East Tennessee."

--Marshall S. Hahn (InEd) was elected Secretary of the South Carolina Industrial Arts Education Association at their annual meeting held in Columbia on March 22, 1968.

--Harvey E. Morgan, Jr. (InEd) was reappointed State Representative for AIAA from the South Carolina Industrial Arts Education Association at the annual meeting held in Columbia on March 22, 1968.

--J. L. Brock (InEd) gave the In Memoriam Address for Leonard R. Booker at the T & I Division meeting of the South Carolina Vocational Association held in Columbia on March 22, 1968.

--C. H. Whitehurst (IM) presented a paper on second class mail subsidies before the Economics section of the South Carolina Academy of Science on April 27, 1968.

--C. H. Whitehurst (IM) attended a two day seminar on Computer Systems at the IBM Education Center in Poughkeepsie, New York.

--S. O. Park (IM) published an article, "South Carolina's Gross State Product: Estimates for 1957 and 1965 and Analysis of Relative Change," in the April, 1968 issue of the South Carolina Business and Economic Review.

--D. W. Lyons (Text) presented a paper "Education for the Instrument Engineer in the Paper and Textile Industry" on April 18 at the Southeastern Instrument Society of American Conference at Charlotte.

--W. D. Trevillian (IM-TS) presented a paper "The Importance of the Textile Industry to the Economy of the State" at the meeting of the South Carolina Small Business Administration Advisory Council, April 24, in Columbia.

--T. D. Efland (IM-TS) and J. M. Wannamaker (IM) were panelists at the Workshop for TEAM Community Aides at Frogmore, S. C., April 19-21.

--H. H. Macaulay, J. F. Pearce, B. R. Skelton, and M. Ulbrich (Econ) presented papers at the Annual Meeting of the South Carolina Academy of Science on April 26-27 at the University of South Carolina. Papers presented are as follows: Macaulay - "The Use of Subsidies as a Device for Reducing Water Pollution." Pearce - "The Economic Impact of Domiciled Life Insurance Companies on the Life Insurance Business in South Carolina." Skelton - "Organized Labor in South Carolina." Ulbrich - "Effects of Sales Tax Harmonization on Governmental Revenues in the European Economic Community."

--H. J. Wheeler (Econ) presided over the Saturday afternoon Technical Section on Economics at the Annual Meeting of the South Carolina Academy of Science on April 26-27 at the University of South Carolina.

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NEWSLETTER

INFORMATION FOR THE STAFF OF CLEMSON UNIVERSITY



Vol. 8 No. 1

August 15, 1968

ARTS AND SCIENCES TO BECOME TWO SEPARATE COLLEGES

In a move designed to further strengthen academic programs, the College of Arts and Sciences will be divided into the College of Liberal Arts and the College of Physical and Mathematical Sciences on July 1, 1969.

The reorganization, approved by the Board of Trustees, will coincide with the expected retirement of Dr. Howard L. Hunter, current dean of the College of Arts and Sciences, thus allowing sufficient time for an orderly and smooth transition.

"Sixty per cent of the total university teaching load and 39 per cent of the faculty are concentrated in the College of Arts and Sciences," notes Dr. Victor Hurst, vice president for academic affairs and dean of the university. "As we plan for the future and realize the importance of enriching Clemson's academic programs, it is necessary that we separate the unit into two colleges."

Dr. H. M. Cox, head of the English and modern languages department, will be dean of the College of Liberal Arts, and Dr. Clayton V. Aucoin, head of the department of mathematics, will be dean of the College of Physical and Mathematical Sciences.

THREE CAMPUS FACILITIES NAMED IN HONOR OF FORMER PROFESSORS, COLLEGE SURGEON

Two campus buildings and a poultry science center have been named in memory of two former department heads and Clemson's first surgeon.

The \$2.1-million College of Engineering graduate research building has been named the Rhodes Engineering Research Center, honoring Prof. Sam R. Rhodes, head of the department of electrical engineering for 25 years and emeritus head of the department until his death last May at the age of 86.

On East Campus, the \$678,000 student health center has been named Redfern Health Center in memory of Dr. Alexander M. Redfern who was appointed college surgeon when Clemson opened in 1893 and served in that capacity until he retired in 1920, three years before his death.

The poultry science center, a complex of poultry research buildings and grounds located near the main campus, has been designated Morgan Poultry Science Center in honor of Prof. Charles Lee Morgan, a member of the faculty for 39 years and head of the poultry husbandry (now poultry science) department from its establishment in 1926 until his retirement in 1959. He died in 1965.

RECORD SUMMER ENROLLMENT

An enrollment of 2,385 students for the second half of summer sessions was an all-time high for second session attendance. In addition, 139 students were enrolled in summer session classes at Clemson University at Greenville and 107 at Clemson University at Sumter.

Last summer, total enrollment for second summer session on the main campus was 1,996 students.

Combined enrollment for both summer sessions this year on the main campus totaled 4,811 students, almost equal to the fall enrollment of the 1965-66 academic year.

LOYALTY FUND SLIGHTLY AHEAD OF 1967 PACE

The Alumni Loyalty Fund, now in its 13th year, is currently a little ahead of last year's pace in both number of donors and amount of income. Last year set a record in donors --- 4,348 --- and was second to 1965 in total income. The Fund year is the calendar year.

Over the past 12 years, alumni and friends have given \$1,349,402.55 to Clemson through this medium. The money has been used to further Clemson's capability in areas for which other funds are non-existent or woefully inadequate --- such areas as undergraduate and graduate scholarships; faculty recruitment; development and basic research; student activities; permanent endowment and alumni services.

Clemson alumni on the University staff are urged to participate in this program as alumni who are concerned about the educational capability of their Alma Mater. Non-alumni on the staff are invited to become "Associates" in this effort to keep Clemson a good university in the company of good universities.

Gifts to the Alumni Loyalty Fund may be sent to the Clemson Alumni Association, Clemson, S. C.

40 HIGH SCHOOL STUDENTS ATTEND JESSI

Forty high school students attended Junior Engineers' and Scientists' Summer Institute (JESSI) from June 2-15. These students came from nine (9) states as follows: South Carolina, 22; North Carolina, 6; Alabama, 4; Tennessee, 2; Ohio, 2; Georgia, 1; Kentucky, 1; and California, 1. John M. Coakley and Karl Sachsenmaier were counselors. R. A. Banister, OIMR, College of Engineering was Associate Director.

RESEARCH FACULTY COUNCIL ROSTER, 1968-1969College of Agriculture and Biological Sciences

W. P. Byrd, R. C. Fox, and L. O. Van Blaricom (1969); J. W. Hubbard, A. S. Tombes, and G. C. Kingsland (1970); J. J. Janzen, M. W. Jutras (1971)

School of Architecture

L. H. Brown (1970)

College of Arts and Sciences

E. M. Lander (1970); J. C. Fanning and H. W. Graben (1971)

College of Engineering

W. P. Barlage and S. F. Hulbert (1970); H. R. Bungay (1971)

School of Industrial Management and Textile Science

J. J. Porter (1969); R. H. Barker (1971)

FACULTY BASIC RESEARCH GRANTS

Applications are now being received by the Faculty Basic Research Committee for grants to faculty members to support research. Grants are made for publication as well as for research. Due to budgetary limitations the Committee has utilized funds for support in areas where other grants are not available, and also as "starter" grants to assist faculty members to initiate research which may later be funded by an off-campus agency. A grant proposal should include the title of the proposed research, the name of the applicant, the objective of the research, a brief description of the procedures anticipated and a realistic budget. Applications may be sent to the Dean of the Graduate School, and must have the approval of the Department Head.

FACULTY SENATE ROSTER, 1968-1969

College of Agriculture and Biological Sciences

J. K. Reed (1969); W. C. Godley and J. R. Warner (1970); J. F. Dickey,
D. L. Handlin, and E. B. Rogers (1971)

School of Architecture

V. S. Hodges (1970); R. E. Knowland and K. J. Russo (1971)

College of Arts and Sciences

S. M. Lukawecki, M. G. Miller, R. F. Mixon, and Eugene Park (1969);
W. C. Capel, J. G. Dinwiddie, L. D. Huff, Mrs. Rameth Owens, and
J. V. Reel (1970); J. F. Allen, J. V. Brawley, Jr., R. J. Calhoun,
W. F. Gettys, and J. L. Idol, Jr. (1971)

School of Education

Herbert Brantley (1969); A. K. Jensen (1970); and H. E. Morgan, Jr. (1971)

College of Engineering

D. W. Bradbury and R. F. Nowack (1969); F. C. Alley and J. N. Thurston (1970);
H. W. Busching, J. C. Mullins, and M. K. Richardson (1971)

School of Industrial Management and Textile Science

J. H. Marvin (1969); D. W. Lyons (1970); J. M. Pearce and C. O. Shuler (1971)

SUSPENSION OF NSF SENIOR POSTDOCTORAL FELLOWSHIP PROGRAM

The NSF Senior Postdoctoral Fellowship program is suspended for fiscal year 1969, and the competition scheduled in the fall of 1968 will not be held. All other NSF fellowship programs scheduled for 1968-1969 will be held as usual; this will not in any way affect Senior Postdoctoral Fellowships awarded in previous competitions for tenures in 1968-1969. In the summer of 1969, a determination will be made as to whether the Senior Postdoctoral Fellowship program is to be resumed and a competition held in the fall of 1969.

OFFICE OF UNIVERSITY RESEARCH

The primary purpose of this office is to assist in developing the full research potential of the institution. To that end, information on the various agencies which support research will be available and every effort will be made to keep this material current.

Faculty members who are contemplating submitting grant proposals are encouraged to discuss proposals with the Office of Research prior to putting them in final form. (This is especially applicable to the individual who does not have experience in writing proposals, and who is not familiar with the policies of the granting agencies.)

A third function of the Office of University Research will consist of periodic dissemination of information concerning research. This may be done in the Newsletter or by memoranda to those thought to be most intimately concerned.

Only if the faculty and staff avail themselves of the services provided by the Office of University Research can this office function as intended.

Director of the Office of University Research is Dr. F. I. Brownley, Jr., the Assistant Director is Dr. R. W. Henningson, and the office is in Room 17, Tillman Hall.

FACULTY PROMOTIONS ANNOUNCED FOR 1968-1969

Thirty-six members of the teaching and research faculties received promotions in rank, effective May 16, 1968. Of these, nine associate professors were promoted to professors, twenty-two assistant professors became associate professors, and five instructors became assistant professors.

New full professors are Dr. Theodore R. Adkins and Dr. Richard C. Fox, entomology and zoology; Dr. David F. Cohoon, botany and bacteriology; Prof. Robert H. Hunter, architecture; Dr. Jacob J. Janzen, dairy science; Dr. Alfred F. Newton, industrial education; Dr. H. Garth Spencer, chemistry; Dr. Clinton H. Whitehurst, industrial management; and Dr. William C. Whitten, Jr., economics.

Promoted to associate professors are Dr. Paul M. Alexander, horticulture; Dr. Joe F. Allen and Dr. C. Barnes Bishop, chemistry; Dr. John G. Alphin, Dr. Clarence E. Hood, Jr., and Dr. Jerry R. Lambert, agricultural engineering; Dr. William F. Beckwith, chemical engineering; Dr. Paul K. Birkhead, geology; Dr. Anil K. Bose, Dr. Joel V. Brawley, Jr., and Dr. T. Gilmer Proctor, mathematics; Dr. Herbert W. Busching, civil engineering; Dr. Thomas L. Drake, mechanical and electrical engineering; Dr. Charles C. Fain and Dr. Samuel F. Hulbert, ceramic engineering; Dr. James G. Goree, engineering mechanics; Dr. Sidney B. Hays, entomology and zoology; Prof. Anders J. Kaufmann, architecture; Dr. Donald W. Lyons, textile science and mechanical engineering; Dr. Cyril O. Shuler and Dr. John M. Wannamaker, industrial management; and Dr. Donald E. Turk, poultry science.

Achieving the rank of assistant professors are Prof. Hewitt D. Adams and Prof. Joseph L. Arbena, history; Prof. Charles M. Israel and Miss O. Irene Yates, English; and Dr. Bobby J. Prochaska, mathematics.

SUMMARY OF THE MINUTES OF THE FACULTY SENATE, MARCH 26, 1968

The Chairman of the Admissions and Scholarship Committee, R. C. Harshman, presented two motions as a result of recommendations by the committee: (1) that Saturday classes be retained, and (2) that the grade-point requirement for continued enrollment be raised to a level commensurate with the present 2.0 GPR requirement for graduation. Both motions were approved. In addition, the following information concerning questions which had been under study by the committee was reported: (1) At the request of the Student Senate, a committee has been appointed by the Dean of the University to re-examine class attendance regulations and to study the adoption of the pass-fail system for a limited number of courses outside a student's area of concentration. (2) A sub-committee of the Committee for Improving Undergraduate Teaching has advised against the creation of a Division of Freshman Studies. (3) The academic calendars for 1968-69 (as revised) and 1969-70 have been standardized to 87 class days per semester. The Committee has reached no decision and recommends further study concerning (1) changes in the preliminary grade report system and (2) the present rule restricting unauthorized modification by individual faculty members of the final examination schedule and the arranging of quizzes at other than normal class hours.

President Thurston reported that two proposals adopted by the Senate in February, (1) the creation of a procedure for involving faculty in the selection of academic administrators and (2) a revised twelve-month payment plan, were rejected by the Administration. It was explained that the Administration's position was to rely on informal lines of communication with the faculty in the selection of academic administrators, rather than to create a formal procedure to be followed in all situations. In regard to the other proposal, it was not deemed feasible to set up a new pay mechanism by the next academic year. Following considerable discussion, President Thurston was asked to explore the matter further with Dean Hurst and to request that he express in writing the Administration's position on the proposals.

After noting that newly elected senators will be seated and new officers elected at the next meeting, President Thurston recommended consideration by the Senate of merger with the Research Faculty Council, giving the following reasons: (1) increasing size of both bodies, (2) growing number of faculty eligible to serve on the Research Council, (3) increasing percentage of persons engaged in both teaching and research, (4) difficulty in deciding which of the two presidents should attend meetings such as that of the Board of Trustees, (5) the Senate's lack of flexibility to handle quickly any changes in university organization, (6) unbalance in the number of senators elected each year, (7) possible need for readjusting standing committee arrangements, (8) the lack of dominance in research or teaching by a single school or college, and (9) the possibility that a single representative body would enjoy enhanced stature over the two present groups.

A motion to commend the Student Senate for its passing of a resolution recommending the more rapid acquisition of books by the university library and an increase in student library fees was approved through voice vote by the Faculty Senate.

SUMMARY OF THE MINUTES OF THE FACULTY SENATE, APRIL 23, 1968

A motion for the establishment of a university long-range planning committee, whose job would be to make recommendations to the Administration involving long-range goals in the academic area, was passed. The proposal with a general suggestion as to the formation of such a committee was forwarded to the Administration for consideration.

A motion that the new officers of the Faculty Senate appoint a committee to work jointly with the Research Faculty Council in a study of possible unification of the two groups was passed.

A proposal that a President-Elect system for selecting the President of the Faculty Senate be adopted was referred to the Policies Committee for study. The adoption of this procedure would require a constitutional amendment.

At the close of the meeting, the annual election was held, with the following officers being chosen: President, Eugene Park (Mathematics); Vice-President, D. W. Bradbury (Mechanical Engineering); Secretary, Robert Mixon (English and Modern Languages); Members of the Committee on Committees: Cecil Godley (Agriculture and Biological Sciences), Vernon Hodges (Architecture), Gray Dinwiddie (Arts and Sciences), H. Brantley (Education), J. N. Thurston (Engineering), and John Pearce (Industrial Management and Textile Sciences).

NOTES FROM THE MINUTES OF THE RESEARCH FACULTY COUNCILMeeting on April 16, 1968

Officers for the year 1968-1969 were elected as follows: Chairman, S. F. Hulbert; Vice-Chairman, W. P. Byrd; Secretary, G. C. Kingsland.

There was further discussion of housing for graduate students during vacation periods.

Dr. R. C. Fox was appointed by the Chairman to serve as liason between the Research Faculty Council and the Faculty Senate for the coming year.

Meeting on May 21, 1968

An Ad Hoc Committee consisting of R. C. Fox (Chairman), W. P. Byrd, W. G. Barlage, and E. M. Lander was appointed to study unification of the Faculty Senate and Research Faculty Council.

Meeting on June 18, 1968

The Council adopted a resolution asking for clarification of the memorandum of May 22, 1968, concerning witnesses appearing before regulatory commissions.

Meeting on July 16, 1968

The Council passed a resolution noting what it felt to be a conflict between the University's policy on academic freedom and the memoranda of May 22 and June 19, 1968, regarding "Witnesses before Regulatory Commissions." It was requested that the matter be further considered.

The Chairman appointed a committee consisting of J. C. Fanning, M. W. Jutras, and H. R. Bungay to study and report on a proposed booklet on research for new faculty members.

ADMINISTRATION

C. B. Green (Asst Dean), H. G. Spencer (Hd, Ch), and R. F. Wheeler (Hd, AnSc) represented Clemson, Phi Kappa Phi, and the American Society of Animal Science, respectively, at the inauguration of Dr. Frederick C. Davison as President of the University of Georgia on May 11.

AGRICULTURAL ECONOMICS

L. M. Bauknight (Assoc Prof) was guest speaker at the Palmetto High School Scholastic Banquet on April 26 in Greenville.

James C. Hite (Asst Prof) presented a paper, "Estimating Intra-Area Economic Growth for Planning Water Resources Investments" at the meeting of the Southeastern Section, Regional Science Association in Knoxville, Tennessee, on April 19.

W. J. Lanham (Hd) spoke to the Aiken Rotary Club on April 8 on "Total Resource Development Concepts and Approaches," participated in the S. C. Regional Export Council Conference in Columbia on April 12, and presented a paper on "Human Capital: Key to Growth and Development in South Carolina" at the annual meeting of the S. C. Tuberculosis Association in Clemson on April 26.

James F. Miles (Assoc Prof) spoke to the Broiler Industry section of the Southeastern Poultry and Egg Association in Atlanta, Georgia, on April 26 on "Central Sales Agencies for Ice Packed Broilers from the South."

B. H. Robinson (USDA) presented a paper "A Programming Model for Analyzing the Effects of Changing Technology and Government Programs on Farm Organization and Income" at the South Carolina Academy of Science meeting in Columbia, April 27. Graduate research assistants, G. H. Liner and K. D. Newlin, also presented papers: "An Economic Analysis of Alternative Methods of Disposing of Peach Canning Waste" and "Treatment of Industrial Wastes in South Carolina Municipal Sewage Plants" respectively.

AGRICULTURAL ENGINEERING

At the annual meeting of the American Society of Agricultural Engineers held at Utah State University on June 18-21 the following papers were presented by members of the Clemson department:

C. E. Hood (Assoc Prof), "Development of a Tomato Harvester for the Southeast" (C. E. Hood and B. K. Webb, authors); also "Correlations of Physical Properties of Tomatoes Important in Mechanical Harvesting and Grading" (C. E. Hood, B. K. Webb, and L. O. Drew, authors).

J. R. Lambert (Assoc Prof), "A Modified Inflow-Outflow Method for Measuring Infiltration in Furrow Irrigation" (L. A. Nance and J. R. Lambert, authors).

J. T. Ligon (Assoc Prof), "Evaluation of the Gamma Transmission Method for Determining Soil Water Balance and Evapotranspiration."

AGRICULTURAL ENGINEERING Cont.

B. K. Webb (Assoc Prof), "Electrostatic Field Breakdown Phenomena in the Application of Charged Dust" (B. K. Webb and H. D. Bowen, authors).

ARCHITECTURE

John Acorn (Assoc Prof) and Ireland Regnier (Assoc Prof) have been summer resident artists at Penland Art School, Penland, N. C.

Harlan E. McClure (Dean) was re-elected Secretary of the National Architectural Accrediting Board at meetings held on June 21-22 in Portland, Oregon.

James Washburn (Asst Prof) participated in a conference on Low Cost Rural Housing for the Southeastern United States held at Virginia Polytechnic Institute.

On exhibition in the Rudolph Lee Gallery from August 13 to 28 is Section d'Or. The Salon de la Section d'Or, held in Paris in 1912, was the first large and coherent exhibition of artists working in various adaptations of cubism. The artists were united by a strong belief in the intellectual and social concerns of art, and the group represented a major effort of the avantgarde to be an effective, unified force. While the name Section d'Or was derived from the ancient ratio known as the "golden section" and suggests the mathematical concerns of some of the artists, it was poetic rather than descriptive in intention. Fourteen of the 32 participants in the group are included in the exhibition, among them Albert Gleizes, Jean Metzinger, Jacques Villon, Roger de La Fresnaye, Juan Gris, Marie Laurencin, Fernand Leger, Andre Lhote, and Louis Marcoussis. Representative cubist works from the period include five from the original exhibition.

CERAMIC AND METALLURGICAL ENGINEERING

Thirty-one South Carolina high school students attended the "Science of Ceramics and Metals" Annual Summer Program which was conducted July 11-13 by Prof. G. C. Robinson and the Ceramic Engineering Staff.

At the annual meeting of the American Ceramic Society in Chicago, April 22-24, the following papers were presented by members of the Clemson faculty and their associates:

S. F. Hulbert (Assoc Prof) and H. H. Wilson (Prof), "Kinetics of Interaction Between MgO and Fe_2O_3 ."

H. G. Lefort (Asst Prof) and C. C. Fain (Assoc Prof), "Ceramic Prosthetic Composites for Vivo Clinical Evaluation."

L. E. Poteat (Assoc Prof) and C. S. Morgan, "Diffusion of Thorium in Thorium Dioxide."

CERAMIC AND METALLURGICAL ENGINEERING Cont.

G. C. Robinson (Hd), "Tensile Weakness of Brick."

The following papers have been presented by G. C. Robinson (Hd), "Methods for Factory Preassembly of Brick Walls" before the Southern Brick and Tile Association in Sea Island, Georgia, on May 23; "Influence of Kiln Atmosphere on Reaction of Iron at Elevated Temperatures" before the Mississippi-Louisiana Brick and Tile Association in New Orleans on June 1; "Fast Firing Ceramic" before the Southeastern Section American Ceramic Society in Gatlinburg, Tennessee, June 14.

CHEMICAL ENGINEERING

D. F. Bruley (Assoc Prof) presented a paper at the 5th International Conference on Microcirculation at the University of Gateborg, Sweden, in June.

G. F. Meenaghan (Prof) has resigned effective December 31, 1968, to accept the position of Chairman of the Department of Chemical Engineering at Texas Technological College, Lubbock, Texas.

CHEMISTRY AND GEOLOGY

The following papers were presented by graduate students and members of the Chemistry faculty at the Annual Meeting of the South Carolina Academy of Sciences, held at the University of South Carolina, April 26-27:

"The Rearrangement of N-Aryl Isoquinuclidones" by T. R. Nasser and J. W. Huffman.

"Potential Model Synthesis for Proaporphines" by C. E. Opliger and J. W. Huffman.

"The Structure and Reactions of Some Dihydroabietic Acids" by J. A. Alford and J. W. Huffman.

"Random Deuteration in Selective Patterns and its Application to P.M.R. Spectra" by G. B. Savitsky, L. G. Robinson, W. A. Tallon, and L. R. Womble.

"The Reactions of Tellurium (IV) Halides with Oxocompounds" by J. C. Fanning and V. M. Marganian.

"The Chemistry of Ottonia Vahllei (Piper ovatum). The Non-volatile Constituent" by A. R. Pinder and S. J. Price.

"2-Methylchloroferrocene" by J. F. Cope and J. W. Huffman.

"Concentration Dependence of the Diffusion Coefficient in a Water Vapor-Poly (Vinyl Alcohol) System" by I. M. Ibrahim and H. G. Spencer.

"Synthetic Studies in the Eremophilane Sesquiterpene Group" by H. M. McGuire and A. R. Pinder.

CHEMISTRY AND GEOLOGY Cont.

"Ornithine Transcarbamylase in Americana periplanta" by C. B. Bishop and M. B. Bishop.

J. F. Allen (Asst Prof) taught a short course for the Atomic Energy Commission at Iona College, New Rochelle, N. Y., May 6-10.

George M. Haselton (Asst Prof) participated in a study, with Canadian Geologists, on Recent Sealevel Changes and the History of Deglaciation along the Northeastern Coast of Baffin Island in the eastern Canadian Arctic. Field work was conducted from May-August.

J. W. Huffman (Prof) presented a lecture before the Coastal Empire Section of the ACS at Savannah, Georgia, May 14.

A. R. Pinder (Prof) presented lectures on the chemistry of some natural products at the University of South Carolina, May 11, and at the University of Georgia, May 14.

G. B. Savitsky (Assoc Prof) was the principal lecturer and organizer of the "ACS Short Course in NMR," held in the Department of Chemistry and Geology, May 11.

CIVIL ENGINEERING

John D. Antrim (Assoc Prof) spent the Spring Semester as a Fulbright Lecturer at the Institute of Technology, Otaniemi, Finland. He lectured to undergraduate and graduate Architect and Civil Engineering students on Urban Transportation Planning. Dr. Antrim also made two-day visits to lecture at Middle East Technical University, Ankara, Turkey; Norwegian Institute of Technology, Trondheim, Norway; Oulu University, Oulu, Finland; University of Bradford, Bradford, England; and University of Liverpool, Liverpool, England.

H. W. Busching (Assoc Prof) attended the Probabilistic Methods Program held at M.I.T. from June 11 to June 28.

Rudolf E. Elling (Asst Prof) attended the Matrix Structural Analysis Program held at Cornell University from June 11 through 21.

ECONOMICS

Hugh H. Macaulay (Alumni Prof) served as a consultant for the Southern Association of Colleges and Schools at Louisiana Polytechnic Institute on May 12-14 and gave an invited lecture in the Teaching Effectiveness Advance Program sponsored by the College of Engineering at the University of Texas on May 17.

William C. Whitten (Assoc Prof) attended the General Electric Seminar on Contemporary Economics at the University of Virginia, June 18-July 12.

ELEMENTARY AND SECONDARY EDUCATION

L. L. Byrd (Asst Prof) served on the Southern Association Evaluation Committee visiting the Columbia Elementary Schools, March 25-29.

Barbara W. Morgan (Asst Prof) received the degree of Doctor of Education in Educational Psychology from the University of Illinois, Urbana, on June 15. Her dissertation is entitled Effects of Repetition of Paired Associates on Acquisition and Retention Processes.

ENGINEERING MECHANICS

Albert G. Law (Assoc Prof) attended the National Symposium on Water Resource Systems sponsored by the American Water Resources Association in Denver, Colorado on July 1-4.

Walter E. Castro (Asst Prof) was selected as an ASEE/NASA Summer Fellow and is conducting research at the George C. Marshall Spaceflight Center, Huntsville, Alabama.

ENVIRONMENTAL SYSTEMS ENGINEERING

J. F. Andrews (Hd), W. M. McLellon (Assoc Prof), and H. R. Bungay (Prof) attended a workshop on Applications of Analog Computers in Sanitary Engineering at Nashville, Tennessee (June 23-26). J. F. Andrews served as program chairman for the workshop, W. M. McLellon served as presiding officer at one of the sessions, and H. R. Bungay presented two papers entitled "Simulation of Microbial Population Dynamics" and "Digital-Analog Simulation." The workshop was sponsored by the American Association of Professors in Sanitary Engineering.

J. F. Andrews (Hd) presented a paper entitled "A Dynamic Model of the Anaerobic Digestion Process" at the Purdue Industrial Waste Conference, May 8.

C. W. Crawford (graduate student, ESE), Kawi Kambhu (graduate student, ESE), and J. F. Andrews (Hd) presented a paper entitled "Instrumentation for Research on Biological Processes" at the Purdue Industrial Waste Conference, May 7.

J. F. Andrews (Hd), W. M. McLellon (Assoc Prof), and Charles J. Dyer (Ext Spec) attended a meeting of the Board of Certification of Public Water Treatment Plant Operators in Columbia on July 26. J. F. Andrews and W. M. McLellon are members of the board.

INDUSTRIAL MANAGEMENT

N. K. Kwak (Asst Prof) was granted a Faculty Fellowship for a special summer program, "New Developments in the Teaching of Economics" which was held June 23 to July 20, at the Graduate School of Business, Stanford University, and sponsored by the General Electric Foundation.

INDUSTRIAL MANAGEMENT Cont.

B. J. Todd (Assoc Prof), W. B. Owen (Math) and B. J. Prochaska (Math) served as instructors in a short course on Statistical Application in Production Planning and Control held at the Clemson House, June 3-7, and sponsored by The American Statistical Association and the Departments of Industrial Management and Mathematics.

MATERIALS ENGINEERING

S. F. Hulbert (Assoc Prof), J. J. Klawitter, (graduate student, MatE), C. D. Talbert (graduate student, CerE), and C. T. Fitts, (South Carolina Medical College) presented a paper entitled, "Ceramic Bones a Progress Report," at the Annual Summer Meeting of the Southwestern Section of the American Ceramic Society, Gatlinburg, Tennessee, July 12.

S. F. Hulbert (Assoc Prof) had the following article published, "Materials of Construction for Surgical Implants," The South Carolina Engineer Vol 19 (1) 32-40 (1968).

MEDIA CENTER

A. K. Jensen (Director) served as consultant and guest lecturer at the Occupational Directors' Association Conference on Educational Technology at Western Piedmont Community College, June 3-5.

SOCIAL SCIENCES

H. D. Adams (Asst Prof) read "Did Andrew Jackson Disobey Orders?" at the annual meeting of the South Carolina Historical Association at Erskine College, March 30.

C. B. Caffrey (Asst Prof) and W. C. Capel (Asst Prof) read "The Predictive Value of Neutral Positions in Opinion and Attitude Research," at the annual meeting of the Southern Sociological Society, Atlanta, Georgia, April 13.

C. B. Caffrey (Asst Prof) read "Behavior Patterns and Personality Characteristics Related to Prevalence Rates of Coronary Heart Disease," at the meeting of the Society for Epidemiologic Research in Washington, D. C., May 10-11.

R. P. Leemhuis (Asst Prof) read "James L. Orr: Opportunist or Realist?" before the meeting of the Anderson County Historical Society, May 9.

CHEMICAL ENGINEERING RECEIVES \$200,000 COMPUTER FROM DOW CHEMICAL

The Chemical Engineering Department received a gift of a GE 312 Computer from the Dow Chemical Company. The computer, valued at over \$200,000, will be used for studies in direct digital control and process simulation.

OTHER GIFTS AND GRANTS

Animal Physiology has been awarded a \$15,000 grant from the National Science Foundation for the support of a Senior Foreign Scientist. Dr. Donald R. Lamond, from the Commonwealth Scientific and Industrial Research Organization of Australia, is now on our campus.

Ceramic Engineering has been awarded a \$7,400 grant from the American Iron and Steel Institute for an investigation, under the director of G. C. Robinson, of the influence of refractory permeability, pore size, and pore quantity on the rate of slag attack.

Food Science and Biochemistry has been awarded a \$23,237 grant from the National Institutes of Health to continue an investigation, under the direction of R. F. Borgman, this research concerned with the pathogenesis of gallstones and lipid metabolism.

Civil Engineering has been awarded a \$14,500 grant from the National Science Foundation for an investigation, under the direction of R. E. Elling, on solutions for concentrated and edge loadings applied to non-axially symmetric shallow shells.

Chemistry has been awarded a \$30,400 grant from the National Science Foundation for a two year investigation, under the direction of J. L. von Rosenberg, of the reaction of olefins with metal carbonyls.

Chemical Engineering has been awarded a \$17,924 grant from West Virginia Pulp and Paper Company for the continuation of an investigation, under the direction of F. C. Alley, of the utilization of activated carbon for removal and/or recovery of sulfur compounds from plant stack gases.

Chemical Engineering has been awarded a \$26,057 grant from the National Institutes of Health for continuation of an investigation, under the direction of D. F. Bruley, of mathematical studies of oxygen diffusion in the brain.

Horticulture has been awarded a \$22,009 federal grant for an investigation, under the direction of J. R. Haun, of the prediction of crop yields.

Chemistry has been awarded a \$10,588 grant from the U. S. Public Health Service for continuation of an investigation, under the direction of J. W. Huffman, of the synthesis of veratramine.

Mathematics has been awarded a \$9,980 grant from the National Aeronautics and Space Administration to continue an investigation, under the direction of B. J. Prochaska and W. B. Owen, of the theory and application of statistical filter theory.

Chemistry has been awarded an \$8,719 grant from the U. S. Public Health Service for continuation of an investigation, under the direction of H. G. Spencer, of penetrant clustering and diffusion in membranes.

Chemical Engineering has been awarded a \$9,000 grant from the National Science Foundation to investigate, under the direction of J. W. Hall, the effect of surface geometry of metal films on catalytic activity.

Textile Science has been awarded a \$16,350 grant from the U. S. Department of Agriculture for the investigation, under the direction of D. W. Lyons, of market quality of cotton.

Recreation and Parks Administration has been awarded a \$37,856 grant from the S. C. Department of Parks, Recreation, and Tourism for a survey and inventory, under the direction of G. E. Howard, of public and private S. C. recreation facilities and resources.

The South Carolina Agricultural Experiment Station has been awarded a \$10,000 grant from R. J. Reynolds Tobacco Company for an investigation, under the direction of J. B. Pitner, of tobacco mechanization, genetics, cultural practices, and nematode and disease control.

The Computer Center has been awarded a \$135,000 grant from the National Science Foundation for the modernization of the Computer Center.

Mathematics has been awarded \$11,700 by the National Science Foundation for an in-service secondary school mathematics institute, under the direction of J. L. Flatt.

Environmental Health has been awarded a \$71,925 grant from the National Institutes of Health for continuation, under the direction of R. F. Borgman, of an environmental health training program.

Engineering has been awarded a \$59,769 grant from the Federal Water Pollution Control Administration (Department of The Interior) for the support, under the direction of L. G. Rich, of a process engineering training program.

Mechanical Engineering has been awarded a \$12,200 grant from the National Science Foundation for the purchase, under the direction of E. Harrison, of instructional scientific equipment.

Education has been awarded a \$2,429 grant from the U. S. Office of Education for the purchase, under the direction of H. F. Landrith, of equipment for the improvement of undergraduate instruction.

The Clemson University Water Resources Research Institute has been awarded a \$100,000 grant from the U. S. Department of the Interior Office of Water Resources Research for the annual allotment program of water resources research investigations. Dr. A. W. Snell directs this endeavor.

Agricultural Engineering has been awarded a \$15,175 grant from the U. S. Department of the Interior for the investigation, under the direction of T. V. Wilson, of the interflow process on sloping watershed areas.

Engineering has been awarded a \$3,980 grant from the Federal Water Pollution Control Administration for the purchase of equipment, under the direction of L. G. Rich, to be used in the process engineering training program.

Horticulture has been awarded a \$5,000 grant from the Horry County Historic Preservation Commission for the development of plans, under the direction of T. L. Senn, for historical horticultural gardens.

J. F. Andrews (ESE) has received a grant of \$18,777 from the Federal Water Pollution Control Administration to support research on "Kinetics of Biological Filters."

U. S. Forest Service, \$1,500 to Forestry for studies to be conducted by Dr. R. E. Schoenike involving quantitative methods for evaluating damage caused by Cronartium fusiforme.

S. C. Swine Producers Association, \$200 to Entomology and Zoology, for studies involving helminth parasites of swine.

CIBA Agrochemical Company, \$1,000 to Agronomy and Soils, for studies on weed control in cotton and soybeans.

Geigy Agricultural Chemicals Company, \$500 to Botany and Bacteriology, for studies on disease control on pecans.

Diamond Shamrock Corporation, \$500 to Edisto Station, for evaluation of Daconil 2787 on cantaloupes and watermelons.

E. I. DuPont DeNemours Company, \$500 to Edisto Station, for studies to be conducted by Dr. S. G. Turnipseed on testing of DuPont insecticides on soybeans.

Hercules, Inc., \$1,000 to Agronomy and Soils, for evaluation of pre-herbicide on weed control in cotton.

Allied Chemical Corporation, \$500 to Agronomy and Soils, to be used on studies involving liquid plant food on Bermuda grass.

E. I. DuPont DeNemours and Company, \$500 to Edisto Station, for studies to be conducted by Dr. D. F. Cohoon involving fungicides on cantaloupes and watermelons.

Uniroyal, Inc., \$500 to Horticulture, for use of Alar in growth regulator studies.

Chemagro Corporation, \$750 to Entomology and Zoology, for studies involving testing Chemagro compounds on cotton.

Southeastern Seed Developers, \$1,950 to Truck Station for pickle research.

Hoffman LaRoche, Inc., \$1,000 to Poultry Science, as supplement to amount given in February, 1968, for fowl cholera research.

Monsanto Company, \$400 to Truck Station, for herbicide residue in soybeans studies.

Chilean Nitrate Educational Bureau, \$300 to Horticulture, for mineral nutrition of peaches research.

NEW FACULTY AND STAFF 1968-69

The following members of the faculty and staff joined the University between August 17, 1967 and August 16, 1968.

School of Agriculture and Biological Sciences

Baker, G. H., Associate Extension Specialist, 4-H Club Work; B.S., Clemson University; Married, two children; Martin Street (Transferred from Florence)

Carroll, A. B., Assistant Professor of Agricultural Economics; B.S., M.S., Clemson University; Ph.D., North Carolina State University; Married; 11 Meadow Lane, Central

Cook, William C., Extension Assistant, Dairy Science; B.S., M.S., Clemson University; Married, one child; 108 Ridgeview Drive

Dickson, D. G., Research Assistant, Agricultural Engineering; B.S., University of Florida; M.S., University of Kentucky; Married, four children; 205 Willow Springs Drive

Ezell, Danny O., Assistant Extension Specialist, Horticulture; B.S., M.S., Clemson University; Ph.D., University of Florida; Married; Daniel Drive

Fairey, John III, Assistant Professor of Botany; B.A., University of South Carolina; M.S., West Virginia University; Single; 318 Pendleton Road

Folkerts, George William, Assistant Professor of Entomology and Zoology; B.A., M.A., Southern Illinois University; Ph.D., Auburn University; Married

Forrester, Donald J., Assistant Professor of Entomology and Zoology; B.S., University of Massachusetts; M.S., University of Montana; Ph.D., University of California; Married, one child; 207 Brook Street

Gable, Paul K., Jr., Administrative Assistant, S. C. Agricultural Experiment Station and Research Instruction; B.S., Clemson University; Married; Rt. 2, Seneca

Henricks, D. M., Assistant Professor of Food Science and Biochemistry; B.S., University of Missouri; M.S., Purdue University; Ph.D., University of Missouri; Married; 331 Woodland Way

Jones, Emory V., Assistant Extension Specialist, Horticulture; B.S., M.S., Clemson University; Married, one child; 23-A Barre Street

Lamond, D. R., Visiting Professor of Animal Science; B.V.Sc., Sydney University; M.S., New Zealand; Ph.D., Sydney University; Married; 112 Hillcrest Avenue

McCaskill, V. H., Assistant Entomologist; B.S., Western Carolina; M.S., Clemson University; Married; 22B Barre Street

McDonald, J. H., Research Assistant, Agronomy; B.S., M.S., University of Tennessee; Married; Royal Acres, Mobile Home #6, Rt. 2, Seneca

Maxwell, J. D., Assistant Professor of Agronomy; B.S., Mississippi State University; M.S., Cornell University; Ph.D., North Carolina State University; Married; P. O. Box 854

Privette, C. V., Extension Assistant, Agricultural Engineering; B.S., M.S., Clemson University; Married; 27-A Martin Drive

Solis, Juan de la Cruz, Assistant Professor of Poultry Science; B.S., New Mexico State University; M.S., University of New Hampshire; Ph.D., Auburn University; Married; 31A Bradley Street

Vereen, L. E., Assistant Professor of Food Science and Biochemistry; B.S., M.S., Clemson University; Ph.D., Colorado State University; Single; 9A Daniel Drive

Warlick, L. E., Statistical Assistant, Experimental Statistics; B.S., New Mexico State University; Married; 16B Hunter Street

Williams, John N. II, Extension Specialist, Animal Science; B.S., Alabama Polytechnic Institute; M.S., Mississippi State University; Ph.D., University of Tennessee; Married, five children; 301 Clarendon Drive

Wooten, T. E., Assistant Professor of Forestry; B.A., Catawba College; M.F., Duke University; Ph.D., North Carolina State University; Single

School of Architecture

Carter, Sydney, Professor of City Planning; B. Arch., Syracuse University; M.C.P., Harvard University

Dalton, James E., Assistant Professor of Architecture; B. Arch., Miami University (Ohio); Master of Arch., University of Minnesota; Married

England, Robert D., Associate Professor of Architecture; B.A., University of Virginia; M.A., Oglethorpe University

Falk, Edward Lockwood, Professor of Architecture; B.A., M.A., University of Minnesota; M.R.P., University of North Carolina; Married

Lee, Peter Roald, Associate Professor of Architecture; B. Arch., University of Minnesota; M. Arch., Massachusetts Institute of Technology; Married

College of Arts and Sciences

Arnold, Edwin Pratt, Instructor in German; A.B., University of South Carolina; M.A., Kent State University; Married, two children

Bacon, John Roger, Assistant Professor of Chemistry; A.A.S., Broome Technical Community College; B.S., Kansas State University; M.S., University of Iowa; Married, 1 child; 9-C Daniel Drive

Baker, Philip Raymond, Instructor in Spanish; B.A., University of Connecticut; M.A., Middlebury College; M.A.T., University of Hartford; Married, two children

Barfield, Rayford Elliott, Jr., Assistant Professor of English; A.B., LaGrange College; M.A., University of Georgia; Single

Beer, Mrs. Bettina Knust, Instructor in History; B.A., St. Lawrence University; M.A., Vanderbilt University; one child; Apt. #12, Shorecrest Apts.

Beer, Joachim Rudolf, Instructor in History; M.A., University of Erlangen; Married, one child; Apt. #12, Shorecrest Apts.

Blanche, Jerry Don, Instructor in Speech; B.S., University of Oklahoma; M.A., Colorado State College; Married, one child; 436 Pendleton Road

Cole, Spurgeon Nothorn, Assistant Professor of Psychology; A.B., M.S., Ph.D., University of Georgia; Married, one child; 108 Carolina Drive

Durham, Bill Gravely, Instructor in Speech; A.B., Wofford College; M.Ed., Furman University; Married, two children

Eisiminger, Sterling Kenwood, Instructor in English; A.A., Columbus College; B.S., Auburn University; Married, one child, 24-A Barre Street

Laskar, Amulya Lal, Associate Professor of Physics; B.S., S. N. College; M.S., Calcutta University; Ph.D., University of Illinois; Married, one child

Laskar, Mrs. Renu Chakravarti, Associate Professor of Mathematics; B.A., Patna University; M.A., Bilar University; Ph.D., University of Illinois, one child

Luedeman, John Keith, Assistant Professor of Mathematics; B.A., Valparaiso University; M.A., Southern Illinois University; Married, two children

McClare, Alan David, Instructor in History; B.A., Amherst College, M.A., Duke University; Single; 10-C Daniel Drive

McCollough, Joe Lawrence, Assistant Professor of Philosophy; B.A., Wake Forest College; M.A., Emory University; Married, two children; 222 Brook Street

McEntire, Russell Hicks, Lecturer in French; B.S., Appalachian State Teachers College; Married, one child

McGregor, Rob Roy, Jr., Assistant Professor of French; B.A., Erskine College; B.D., Columbia Theological Seminary; M.A., University of South Carolina; Married, one child (Transferring from Greenville.Center to Main Campus)

McLaughlin, John Joseph, Associate Professor of English; B.S., Temple University; M.A., Ph.D., University of California at Los Angeles; Married, one child; 15-B Pendleton Road

McMains, Howard Franklin, Assistant Professor of History; B.A., Butler University; M.A., Indiana University; Single; Back Bay Lake Apts.

Maron, Elke Maria, Instructor in French; B.A., University of South Carolina; M.A., Tulane University; Single

Poole, John Terry, Associate Professor of Mathematics; B.S., University of North Carolina; M.A., Ph.D., University of Maryland; Married, one child; Shorecrest Apt. #1, Shorecrest Drive

Recoulley, Alfred Lunsford III, Assistant Professor of English; B.A., Louisiana State University; M.A., Duke University; Single

Slann, Martin Wayne, Instructor in Political Science; A.B., University of Miami; M.A., University of Connecticut; Single; Apt. #15 Shorecrest Apts., Shorecrest Drive

Snipes, David Strange, Assistant Professor of Geology; B.S., Wake Forest College; Ph.D., University of North Carolina; Married, four children, 17 Camelback Road, Greenville

Turner, Mrs. Barbara Dow, Part-time Instructor in Psychology; B.A., M.A., University of Maine; one child; 93 Milky Way

Turner, Raymond Clyde, Assistant Professor of Physics; B.S., Carnegie Institute of Technology; Ph.D., University of Pittsburgh; Married, three children

Wallenius, Kenneth Ted, Associate Professor of Mathematics; A.B., M.A., University of Southern California; Ph.D., Stanford University; Married, three children; Rt. 2, North Bayshore Drive, Seneca

Wood, William Brittingham, Jr., Instructor in English; B.A., Virginia Polytechnic Institute; Married; 8-E Daniel Drive

School of Education

Benson, Robert T., Assistant Professor of Vocational Education; A.A.S., Delhi Agricultural and Technical Institute; B.S., M.S., Cornell University; D.Ed., Pennsylvania State University; Married; 22-A Barre Street

Burkett, Byron Verner, Jr., Assistant Professor of Vocational Education; B.S., M.S., Clemson University; Married; 17 Brown Street, Seneca

Crouch, James P., Assistant Professor of Industrial Education; A.B., M.A., San Diego State College; Married

Etheredge, James M., Assistant Professor of Aerospace Studies; Captain, United States Air Force; B.A., Florence State College; Married

Freeman, Mrs. Gail S., Instructor in Education; B.S., Lander College; M.Ed., Clemson University; one child; 7L Mills Road

Gahan, Lawrence W., Assistant Professor of Recreation and Park Administration; B.S., M.S., University of Illinois; Married; Shorecrest Apts.

Galloway, Mrs. Elizabeth Boyce, Instructor in Music Education; A.B., Erskine College; M.A., Furman University

Giles, Jerry W., Assistant Professor of Aerospace Studies; Captain, United States Air Force; B.S., Troy State University; Married; 102 Grace Street

Gray, Gordon Walter, Associate Professor of Education; B.S., M.A., East Tennessee State University; Ed.D., University of Tennessee

Harris, Jackie Ray, Assistant Professor of Education; B.A., Baylor University; M.Ed., North Texas State University; Ed.D., University of Houston

Kapelis, Mrs. Lia, Research Assistant, Research Coordinating Unit, (also part-time Instructor in Psychology in the College of Arts and Sciences); B.A., University of Adelaide (Australia); M.Ed., Clemson University; two children; 40-B Daniel Drive

Maertens, George K., Professor of Military Science; Colonel, United States Army; B.S., United States Military Academy (West Point); Married; Grey Barn Cove, Pike Road, Central

Maurer, Donald Edwin, Associate Professor of Industrial Education; B.S., M.S., Stout State University; Ed.D., University of Missouri; Married; 200 Cedar Lane

Rodgers, John H., Professor of Vocational Education; B.S., M.S., Clemson University; Ph.D., Ohio State University; Married; 301 Skyview Drive

Rohrbach, James Jerome, Instructor of Industrial Education; B.S., M. of InEd., Clemson University; Married

Ruple, Charles W., Assistant Professor of Military Science; Captain, United States Army; B.S., Auburn University; Married

Salley, Mary Katherine, Lecturer, Vocational Education Media Center; B.A., University of South Carolina; Single; 103 Elm Street

Stevenson, John L., Associate Professor of Recreation and Park Administration; B.S., Davidson College; B.D., Th.M., Union Theological Seminary; Ph.D., Indiana University; Married; Thomas Street

White, Robert H., Associate Professor of Vocational Education; B.S., M.A., New Mexico State University; Ph.D., Ohio State University; Married; 100 Wrenn Street

College of Engineering

Brandon, Craig Arnold, Associate Professor of Mechanical Engineering; B.S.M.E., Duke University; M.S.M.E., Stanford University; Ph.D., University of Tennessee; Married, three children

Dyer, Charles Jon, Extension Specialist, Environmental Systems Engineering; B.S., M.S., Virginia Tech; Married

Dysart, Benjamin Clay III, Assistant Professor, Environmental Systems Engineering; B.E., M.S., Vanderbilt University; Ph.D., Georgia Institute of Technology; Married

Gilchrist, Ralph Wayne, Professor of Electrical Engineering; B.S.E.E., Tri-State College; M.S.E.E., University of Michigan; Ph.D., Michigan State University; Married, three children

Lathrop, Jay Wallace, Professor of Electrical Engineering; B.S., M.S., Ph.D., Massachusetts Institute of Technology; Married, four children

Snelsire, Robert William, Associate Professor of Electrical Engineering; B.A., Bethany College; B.S., M.S., Ph.D., Carnegie Institute of Technology; Married, three children

Stafford, Donald B., Assistant Professor of Civil Engineering; B.S.C.E., M.S.C.E., Ph.D., North Carolina State University; Married, one child; 37-A Daniel Drive

School of Industrial Management and Textile Science

Christou, George C., Assistant Professor of Economics; B.A., Athens School of Economics (Greece); M.S., North Carolina State University; Single

Close, Francis A., Assistant Professor of Economics; B.S., Florida State University; M.S., Georgia Institute of Technology; Ph.D., Florida State University; Married, two children; 12-B Palmetto Blvd.

Laffoday, William C., Coordinator, Professional Development Program; B.S., Clemson University; M.A., University of Virginia; Married, three children; 297 Wren Street

Lundberg, John L., Associate Professor of Textile Chemistry; B.Ch.E., University of Minnesota; Ph.D., University of California; Married, four children, 301 Wyatt Street

Shulenburg, David E., Instructor of Economics; B.A., Lenoir Rhyne College; M.A., University of Illinois; Married

Turner, James A., Assistant Professor of Industrial Management; B.S., University of North Carolina; Juris Doctor, CPA, University of South Carolina; Married; two children

Vaughan, Charles G., Jr., Instructor of Textiles; B.S., Gilford College; M.S., Clemson University; Married, two children; 309 Highland Drive

School of Nursing

Labecki, Geraldine, Dean, School of Nursing, and Professor of Nursing; B.S., M.A., Columbia University; Ed.D., George Peabody College for Teachers; Single

Clemson University at Greenville TEC

Edwards, Mrs. Mary Lang Olsen, Instructor in Botany and Zoology, Clemson University at Greenville TEC; B.A., Agnes Scott College

Farris, Dorothy Helen, Instructor in French, Clemson University at Greenville TEC; A.B., M.A.T., Indiana University; Single

Strickler, J. Robert, Instructor in English, Clemson University at Greenville TEC; A.B., Bridgewater College; M.A., Appalachian State University; Single

Clemson University at Sumter

Darmody, Gordon R., Assistant Professor of Physics, Clemson University at Sumter; B.A., Union College; M.Ed., Sam Houston State Teachers College; Married

Logue, John F., Instructor of Biology, Clemson University at Sumter; B.S., M.S., University of South Carolina; Married, two children

Willson, Frederick A., Part-time Visiting Instructor in Industrial Management, Clemson University at Sumter; A.A., Armstrong College; B.S., University of South Carolina; C.P.A.; Married, three children; 655 Henderson Street, Sumter

Business and Financial Affairs

Berry, Walter E., Safety Coordinator, Personnel Division; B.S., Clemson University; Single; Route 11, Greenville

Dimmock, Charles, Associate Director of Auxiliary Enterprises, Auxiliary Enterprises Division; Married, three children; 409 Shorecrest Drive

Dragoo, R. C., Superintendent of Planning and Engineering, Physical Plant; B. Arch., University of Oklahoma; Married, three children; 206 Skyview

Wilson, J. N., Senior Accountant - Property Control, Purchasing Division; B.A., Furman University; Married, two children; 819 Crouch Drive, Pendleton

Development

Farrar, Millard B., Director of Planning and Corporate Support; B.S., Clemson University; Married; P. O. Box 894

Sale, Allen M., Jr., Publications Editor, Department of Public Relations; B.A., Clemson University; Married; Apt. 3B, Dove Hill Apts., Skyview Drive

Student Affairs

English, Mrs. Mary B., Psychometrist, Counseling Center; A.B., Agnes Scott College; M.R.E., Southern Baptist Theological Seminary; one child

Freeman, D. K., Psychiatrist, Student Health Service; A.B., Brown University; M.D., University of Rochester; North Carolina Memorial Hospital General Psychiatry Resident; Married, three children; Willow Springs Road

Hoffmann, F. James, Director of Student Activities, Office of Student Affairs; B.A., University of Kentucky; M.A., University of Arizona; Married, one child; Freedom Drive

The Robert Muldrow Cooper Library

Moss, Mrs. Sue Holcomb, Catalog Librarian; A.B., University of South Carolina; B.S. in L.S. degree, George Peabody College for Teachers; Walhalla

CALENDAR OF CAMPUS EVENTS

Aug.	13-28	Tu-W		Section d'Or - Rudolph Lee Gallery, Lee Hall
Aug.	16	F		New Faculty and Staff Orientation
Aug.	17	Sat		College and School Orientation
Aug.	19-20	M-Tu	8:00 a.m.	Final Summer Freshman Orientation
Aug.	19	M	10:30 a.m.	General Faculty and Staff Meeting, Brackett Aud.
Aug.	20	Tu	1:00 p.m.	Matriculation, Current Students
Aug.	20	Tu	4:00 p.m.	Research Faculty Council
Aug.	21	W		Matriculation and Registration, All Students, Tillman Hall
Aug.	21	W	6:00 p.m.	Freshman Picnic, President's Home
Aug.	22	Th	8:00 a.m.- noon	Late Registration
Aug.	23	F		Classes Begin, Abbreviated Schedule
Aug.	23	F		Planning Committee meeting for first National Conference on Waste Water Plant Operators Training, Penthouse, Clemson House
Aug.	29	Th		Last Day for Matriculation
Aug.	29	Th		President and Mrs. Edwards "At Home" to Faculty and Staff
Aug.	31	Sat	8:00 p.m.- 12:00 p.m.	CDA Opening Mixer, Dining Hall (Harcombe Commons)
Sept.	2-24	M-Tu		Art of the City - Rudolph Lee Gallery, Lee Hall
Sept.	2	M	9:00 a.m.	Educational Council Meeting
Sept.	5	Th	3:45 p.m.	Woman's Club Reception for Newcomers, Clemson House
Sept.	5	Th	8:00 p.m.	Graduate Wives meeting, YMCA
Sept.	9-10	M-Tu		Short School for Water & Waste Water Treatment Plant Operators, Clemson University at Sumter
Sept.	11	W	8:00 p.m.	CDA Concert, Fike Field House
Sept.	17	Tu	4:00 p.m.	Research Faculty Council

Sept.	20	F	9:00 p.m.- 1:00 a.m.	CDA Rat Hop, Dining Hall (Harcombe Commons)
Sept.	21	Sat	1:30 p.m.	Football, Wake Forest at Winston-Salem, N. C.
Sept.	21	Sat	8:00 p.m.- 12:00 p.m.	CDA Rat Hop, Dining Hall (Harcombe Commons)
Sept.	22	Sun	2:00 p.m.- 4:00 p.m.	CDA Concert, Fike Field House
Sept. Oct.	26- 16	Th-W		German Medieval Sculpture - Rudolph Lee Gallery Lee Hall
Sept.	27	F	3:00 p.m.	Freshman Football - Wake Forest at Clemson
Sept.	28	Sat	2:00 p.m.	Soccer, Emory University
Sept.	28	Sat	2:00 p.m.	Football, University of Georgia at Athens, Ga.
Oct.	3	Th	8:00 p.m.	Graduate Wives Meeting, YMCA - Dr. C. W. Bolen, Speaker
Oct.	4	F	3:00 p.m.	Freshman Football - University of Georgia at Athens, Ga.
Oct.	5	Sat	2:00 p.m.	Soccer, University of Maryland
Oct.	5	Sat	2:00 p.m.	Football - Georgia Tech at Atlanta, Ga.
Oct.	7-27	M-Sun		International Trends In Printmaking - Rudolph Lee Gallery - Lee Hall
Oct.	7	M	9:00 a.m.	Educational Council Meeting
Oct.	7	M	8:00 p.m.	Concert - Fiesta Mexicana - Fike Field House
Oct.	9	W	3:00 p.m.	Soccer, Duke at Duke University
Oct.	10	Th	7:30 p.m.	Freshman Football, USC at Columbia, S. C.
Oct.	11	F	7:00 p.m.	Tigerama - Stadium
Oct.	11-12	F-Sat		Homecoming Dances - Dining Hall (Harcombe Commons)
Oct.	12	Sat	10:30 a.m.	Soccer, University of Jacksonville (Homecoming)
Oct.	12	Sat		Homecoming (Classes Suspended)
Oct.	12	Sat	1:30 p.m.	Football - Auburn at Clemson
Oct.	13	Sun	2:00 p.m.- 4:00 p.m.	CDA Concert - Fike Field House

Oct. 14-16	M-W		Cer. Engr. Plant Operators Forum - Clemson House
Oct. 15	Tu	3:00 p.m.	Soccer, UNC at Clemson
Oct. 15	Tu	4:00 p.m.	Research Faculty Council
Oct. 16-19	W-Sat		Clemson Players' Production
Oct. 18	F	3:00 p.m.	Freshman Football - Duke at Clemson
Oct. 19	Sat	1:30 p.m.	Football - Duke at Clemson (Band Day)
Oct. 22	Tu	2:00 p.m.	Soccer - University of Virginia at Virginia
Oct. 22	Tu		Graduate Record Exam - Required of All Seniors
Oct. 25	F	8:00 p.m.	Freshman Football - Georgia Tech at Savannah, Ga.
Oct. 26	Sat	10:30 a.m.	Soccer, The Citadel at The Citadel
Oct. 26	Sat	1:15 p.m. CST	Football, Alabama at Tuscaloosa, Alabama
Oct. 30	W	8:00 p.m.	CDA Junior Class Concert - Fike Field House
Nov. 2	Sat	1:30 p.m.	Football, N. C. State at Raleigh, N. C.
Nov. 2	Sat	1:30 p.m.- 3:30 p.m.	Foreign Language Exams, Room E-208, Martin Building
Nov. 2	Sat	2:30 p.m.	Soccer, Warren Wilson at Warren Wilson
Nov. 4	M	9:00 a.m.	Educational Council Meeting
Nov. 4	M		Seminar - Chemical Engineering Dept. - "Estimation of Thermodynamic Properties of Fluids" - Earle Hall
Nov. 4-23	M-Sat		Fountains - Rudolph Lee Gallery - Lee Hall
Nov. 4-23	M-Sat		Vacation Homes - Rudolph Lee Gallery - Lee Hall
Nov. 5	Tu	3:00 p.m.	Soccer, Erskine at Erskine
Nov. 7-9	Th-Sat		Clemson Little Theatre Production
Nov. 7	Th	8:00 p.m.	Graduate Wives Meeting, YMCA. Guest speaker, Mrs. Robert F. Poole
Nov. 9	Sat	1:30 p.m.	Football, University of Maryland at College Park, Md.
Nov. 9	Sat	2:00 p.m.	Soccer, N. C. State at Clemson
Nov. 12	Tu	2:30 p.m.	Soccer, Belmont Abbey at Belmont Abbey

Nov.	13	W	8:00 p.m.	Shakespearean Play - "Othello" - Tillman Hall Aud.
Nov.	16	Sat	10:30 a.m.	Soccer, University of Chattanooga at Chattanooga
Nov.	16	Sat	1:30 p.m.	Football, University of North Carolina at Clemson (IPTAY Day)
Nov.	19	Tu	4:00 p.m.	Research Faculty Council
Nov.	19	Tu	8:00 p.m.	Rene Wellek, Sterling Professor of Comparative Literature, Yale University, will speak on "Form and Meaning in Tolstoy's <u>War and Peace</u> " in Civil Engineering Auditorium
Nov.	21	Th	8:00 p.m.	Concert - Yehudi and Hepzibah Menuhin - Fike Field House
Nov.	22	F		Carolina Dances - Dining Hall (Harcombe Commons)
Nov.	23	Sat		Carolina Dances - Dining Hall (Harcombe Commons)
Nov.	23	Sat		Classes Suspended
Nov.	23	Sat	1:30 p.m.	Football - University of South Carolina at Clemson (Dad's Day)
Nov.	25-27	M,T,W		Follow Thursday, Friday, Saturday Class Schedule
Nov.	28-30	Th-Sat		Thanksgiving Holidays
Nov.	30	Sat	8:00 p.m.	Basketball - Georgia Tech at Clemson
Dec.	2	M	9:00 a.m.	Educational Council Meeting
Dec. Jan.	5- 12	Th-Sun		School of Architecture - Student Work, Rudolph Lee Gallery - Lee Hall
Dec.	5	Th	8:00 p.m.	Graduate Wives Meeting, YMCA. Guest speaker Mr. Carlyle Morgan of Morgan's Flowers & Gifts Shop
Dec.	6-7	F-Sat		Clemson Children's Theatre Production
Dec.	7	Sat	8:00 p.m.	Basketball - Louisiana State at Clemson
Dec.	9	M		Examinations Begin
Dec.	14	Sat		Graduate Record Exam
Dec.	16	M	8:00 p.m.	Basketball - UNC at Chapel Hill, N. C.
Dec.	18	W		General Faculty Meetings
Dec.	19	Th		Commissioning Exercises Graduation

Dec.	19	Th	8:00 p.m.	Basketball - University of Alabama at Tuscaloosa, Ala.
Dec.	21	Sat	8:00 p.m.	Basketball - Auburn University at Birmingham, Ala.
Dec.	28	Sat	8:00 p.m.	Basketball - Duke at Durham, N. C.
 <u>1969</u>				
Jan.	2	Th	8:00 p.m.	Basketball - The Citadel at Clemson
Jan.	4	Sat	8:00 p.m.	Basketball - USC at Columbia, S. C.
Jan.	5-8	Sun-W		Clemson Music Club Production
Jan.	6	M	9:00 a.m.	Educational Council Meeting
Jan.	6	M		Matriculation, New Students
Jan.	6-10	M-F		Cer. Engr. Short Course for Brick Manufacturers - Olin Hall
Jan.	7-8	Tu-W		Registration, All Students
Jan.	8	W	8:00 p.m.	Basketball - Georgia Tech at Atlanta, Ga.
Jan.	9	Th		Classes Begin, Abbreviated Schedule
Jan.	11	Sat	8:00 p.m.	Basketball - University of Virginia at Charlottesville, Va.
Jan.	13	M	8:00 p.m.	Basketball - University of Maryland at College Park, Md.
Jan.	14	Tu	8:00 p.m.	Concert - Ferrante and Teicher - Fike Field House
Jan.	16	Th		Last day for matriculation
Jan.	16	Th	8:00 p.m.	Basketball - Furman at Clemson
Jan.	17	F		Seminar - Chemical Engineering Department - "Momentum, Heat, and Mass Transport" - Earle Hall
Jan.	18	Sat		Graduate Record Exam
Jan.	21-23	Tu-Th		Religious Emphasis Week
Jan.	23	Th	8:00 p.m.	Basketball - Furman University at Greenville, S. C.
Jan.	24-25	F-Sat		CDA Mid-Winter Dances
Jan.	25	Sat	8:00 p.m.	Basketball - Virginia Tech at Blacksburg, Va.

Jan.	29	W	8:00 p.m.	Concert - Detroit Symphony - Fike Field House
Feb.	1	Sat	8:00 p.m.	Basketball - N. C. State at Clemson
Feb.	3	M	9:00 a.m.	Educational Council Meeting
Feb.	4	Tu	8:00 p.m.	Concert - Janet Baker - Fike Field House
Feb.	5	W	8:00 p.m.	Basketball - Duke at Clemson
Feb.	7	F	8:00 p.m.	Basketball - Florida State at Clemson
Feb.	8	Sat	1:30 p.m.- 3:30 p.m.	Foreign Language Exams, Room E-208, Martin Building
Feb.	10	M	8:00 p.m.	Basketball - South Carolina at Clemson
Feb.	13	Th	8:00 p.m.	Concert - Preservation Hall Jazz Band - Fike Field House
Feb.	14-15	F-Sat		North-South Classic at Charlotte
Feb.	18	Tu	8:00 p.m.	Basketball - Wake Forest at Winston-Salem, N. C.
Feb.	20-22	Th-Sat		Clemson Little Theatre Production
Feb.	22	Sat	8:00 p.m.	Basketball - Maryland at Clemson
Feb.	24	M	8:00 p.m.	Basketball - Virginia at Clemson
Feb.	27	Th		Sigma Xi Program in Civil Engineering Auditorium
Feb.	27	Th	8:00 p.m.	Basketball - Wake Forest at Clemson
Feb.	28	F	9:00 p.m.- 1:00 a.m.	Military Ball
Mar.	3	M	9:00 a.m.	Educational Council Meeting
Mar.	5-8	W-Sat		Clemson Players' Production
Mar.	6-8	Th-Sat		ACC Basketball Tournament at Charlotte, N. C.
Mar.	6	Th	8:00 p.m.	Junior Follies - Fike Field House
Mar.	7-8	F-Sat		CDA Spring Hop
Mar.	15	Sat	12:00 noon	Spring Holidays Begin
Mar.	24	M		Classes Resume
Mar.	25-	Tuesdays		Continuing Education Classes
Apr.	29			

Apr.	2-5	W-Sat		Clemson Players' Production
Apr.	4-5	F-Sat		Junior-Senior Dances
Apr.	5	Sat		Spring Football Game
Apr.	7	M	9:00 a.m.	Educational Council Meeting
Apr.	9	W		Honors & Awards Day (Classes Suspended at Noon)
Apr.	14-19	M-Sat		Clemson Week Around the World
Apr.	17	Th		ROTC Recognition Day
Apr.	28	M		Examinations Begin
May	5	M	9:00 a.m.	Educational Council Meeting
May	8	Th		General Faculty Meeting
May	9	F		Commissioning Exercises
May	9	F		President's Reception for Graduates and their Families - President's Home
May	9	F		Commencement
May	16-17	F-Sat		Clemson Children's Theatre Production
May	19-	M		First Summer Sessions
June	26	Th		
June	5-7	Th-F-Sat		Alumni Weekend
June	8-21	Sun-Sat		JESSI at Clemson
June	25-26	W-Th		Examinations
June	30-	M		Second Summer Sessions
Aug.	7	Th		
Aug.	9	Sat		Commencement



CLEMSON

NEWSLETTER

INFORMATION FOR THE STAFF OF CLEMSON UNIVERSITY

5C Vol. 8 No. 2
LD 1049
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CLEMSON UNIVERSITY LIBRARY
SOUTH CAROLINA ROOM

September 1, 1968

OCT 23 1968

ROBERT MULDROW COOPER LIBRARY COLLECTION TOTALS 395,000 VOLUMES

J. W. Gordon Gourlay (Dir Library) reports the book collection at Robert Muldrow Cooper Library totaled 395,000 volumes at the end of the fiscal year. In addition, the library has 4,480 reels of microfilm and 32,774 microcards and units of microfiche.

Indicative of the main campus library's rapid growth and expansion during the past decade, its staff has increased from 21 to 45 members; the amount allocated for books, periodicals and binding has risen from about \$45,000 to \$260,000; and the number of interlibrary loan transactions has surged from 127 to 1,370.

With completion of the new building two years ago, the library has tripled its floor space. The old facility had a total of 32,000 square feet of floor space while each of the three levels in Robert Muldrow Cooper Library has 32,000 square feet of floor space.

LIBRARY REQUESTS FACULTY BOOK LISTS

All faculty members are requested to forward to Robert Muldrow Cooper Library the list of books which they wish to have placed on reserve well in advance of class assignments. Frequently, the books are checked out and have to be recalled, and very often some titles have to be ordered from the publisher and cataloged.

"THE ART OF THE CITY" OPENS IN LEE GALLERY

On exhibition in the Rudolph Lee Gallery from September 2 to 24 is The Art of The City. The Art of The City brings together ideas and realities of seventeen multiple-use buildings and projects, called infrastructures, whose principal design criteria are the coordination of beauty with the dynamic and spatial characteristics of 20th century living. Because of the large scale of the "cities," the construction solutions are innovations in themselves. But the prime concerns are the amenities provided to the users and the conservation of land area. Open spaces for light and air are designed into privately owned "cities" such as The Rockefeller Center. Circulation and storage of motor vehicles are provided, eliminating the confusion generated by the mixing of both cars and pedestrians. Composites of apartments, offices, shops and theatres (see Marina Towers, Chicago) allow for the minimal need of automobiles, but provide for their use. The vertical city of LeCorbusier (Marseulle) includes, also, schools, a hospital and roof-top gymnasium.

DATES ANNOUNCED FOR NATIONAL AND RESTRICTED TESTS

Dr. Virginia S. Hardie, director of the counseling center, announces the scheduled dates for the administration of national and restricted tests.

Dr. Hardie urges deans and department heads to remind students interested in graduate study to take special notice and secure applications for registration from the counseling center in Room 20, Tillman Hall.

The following schedule of testing dates has been arranged:

The Graduate Record Examination - October 26, 1968, December 14, 1968, January 18, 1969, April 26, 1969, July 12, 1969.

Architectural School Aptitude Test - October 19, 1968, January 4, 1969, March 29, 1969.

Dental Aptitude Test - October 4, 1968, January 10, 1969, April 25, 1969.

Admission Test for Graduate Study in Business - November 2, 1968, February 1, 1969, April 12, 1969.

Veterinary Aptitude Test - January 25, 1969.

Medical College Admission Test - date pending.

The following special tests are given at any time by appointment and for a fee:

Miller Analogies Test; Minnesota Engineering Analogies Test; Doppelt Mathematical Reasoning Test; American Institute of Certified Public Accountants, Aptitude and Achievement Test; specific tests for students transferring to other colleges and universities.

CONCERT SERIES ANNOUNCED

The Clemson University Concert Series will present six outstanding performances during the 1968-69 academic year. The series opens with Fiesta Mexicana on October 7, followed by Yehudi and Hepzibah Menuhin on November 21; Ferrante and Teicher on January 14; Detroit Symphony Orchestra, with Sixten Ehrling conducting, on January 29; mezzo-soprano Janet Baker on February 4; and will close with the Preservation Hall Jazz Band on February 13.

All concerts begin at 8 p.m. in Fike Field House.

Ticket prices are: general admission season ticket, \$10; general admission student ticket (for public school students, college students not enrolled at Clemson, and wives of Clemson students), \$5; single admission ticket (adult or student), \$3. All Clemson University students are admitted to the concerts upon presentation of I. D. cards.

CONCERT SERIES ANNOUNCED (Continued)

Tickets are available by mail by writing Box 2325 University Station, Clemson, S. C. 29631, or in the department of bands office.

AGRICULTURAL ECONOMICS

J. M. Stepp (Prof) and J. C. Hite (Asst Prof) served as judges for the national undergraduate debate competition sponsored by the American Agricultural Economics Association at Montana State University in Bozeman on August 18-21.

ECONOMICS

Holley Ulbrich (Instr) has been notified by the University of Connecticut of the award of the Doctor of Philosophy degree in Economics. The degree is to be formally conferred at graduation ceremonies in June 1969. Mrs. Ulbrich's dissertation is entitled: "Sales Tax Harmonization in the European Economic Community."

ENTOMOLOGY AND ZOOLOGY

T. R. Adkins, Jr. (Prof) attended the 13th International Congress of Entomology in Moscow, Russia, August 3-8. At this meeting he presented a paper, "Biology, Control and Vector Potential of The Face Fly." Also, he participated in the entomological tour of Russian areas organized by the Entomological Society of America in conjunction with the Congress. Dr. Adkins was awarded a National Institute of Health travel grant to attend the Congress.

J. H. Cochran (Hd) and H. B. Jackson, Jr. (Asst Ent) attended the annual meeting of the Association of American Pesticide Control Officials, Inc. in Ottawa, Ontario, Canada, from August 4-9.

Averett S. Tombes (Assoc Prof) served as an NSF-AID Consultant to the Indian Summer Science Institute at the University of Mysore, India from April 8 through May 31. He performed these duties at the request of the National Science Foundation in cooperation with the Agency for International Development.

FOOD SCIENCE AND BIOCHEMISTRY

Donald M. Henricks (Asst Prof) attended, as an invited participant, the Laurentian Hormone Conference held August 25 through August 30 at Mont Tremblant, Quebec, Canada.

MILITARY SCIENCE

Col. George K. Maertens (Head/Prof) will be featured on the Sept. 4th "Today in the Piedmont" show on Greenville television station WFBC-TV at 9 a.m.

TEXTILES

Donald W. Lyons (Prof) presented the seminar at the Celanese Research Corporation in Summit, New Jersey on July 1, 1968. The title of his presentation was "Principles of Microwave Heating and Drying."

GIFTS AND GRANTS

T. R. Adkins, Jr. (Ent) and J. B. Kissam (Ent) have been awarded a \$300 grant from the Chevron Chemical Company of Atlanta, Georgia, for research involving the effectiveness of Dibrom for the control of house flies in poultry houses.

Harry M. Taft and his associates (USDA - Cotton Insects Research) have been awarded a grant of \$750 from Chemagro Corporation, Kansas City, Missouri, for the testing of Chemagro products on cotton insects.

Elanco Products Co., \$750 to Sandhill Station, for investigations of Treflan as a herbicide on peach trees.

Allied Chemical Corp., \$500 to Horticulture, for studies involving fertilization of peaches.

Calumet and Hecla, \$500 to Botany, for investigations of Foliar fungicides on cucumbers.

R. J. Reynolds Tobacco Co., \$10,000 to Pee Dee Station, for tobacco research.

Eli Lilly and Co., \$750 to Horticulture, for research involving herbicides on vegetable crops.

H. F. Baker and Brothers, Inc., \$1,000 to Food Science and Biochemistry, for evaluation of protein in broiler diets.

Elanco Products Co., \$1,700 to Entomology and Zoology, for research involving insecticide research.

American Cyanamid Co., \$1,500 to Entomology and Zoology, for investigations of insecticides.

FACULTY ACADEMIC STANDING COMMITTEES 1968-69

1. Admissions. The Dean of Admissions and Registration serves as chairman ex officio and the Registrar is an ex officio member. The committee makes specific recommendations to the President in cases of individual student petitions. The committee deals not only with original admission problems, but with aspects of continuing enrollment.

K. N. Vickery (Chairman, ex officio)

B. M. Cool (For)	1969	A. E. Schwartz (CE)	1970
C. E. Littlejohn (ChE)	1969	S. M. Watson (ME)	1970
Herbert Brantley (RPA)	1970	Susan H. Brown (IM)	1971
C. C. Fain (CrE)	1970	B. N. Skardon (Engl)	1971
V. S. Hodges (Arch & Fac. Senate)	1970	R. J. Berry (<u>ex officio</u>)	

2. Athletic Council.

R. R. Ritchie (Chairman)

T. D. Efland (IM & TS)	1969	J. L. Young (Arch)	1971
Eugene Park (Math & Pres., Faculty Senate)	1969	R. W. Moorman (EM)	--
B. N. Skardon (Engl)	1969	K. N. Vickery (Dean, Adm & Registration)	---
W. J. Lanham (AgEc)	1970	W. G. DesChamps, Alumni Member	--

3. Curricula. Ex officio members are the President of the Faculty Senate, the Dean of Admissions and Registration, and the Dean of the University, who acts as chairman. Faculty members of the committee are chairmen of school or college curriculum committees. The University Curricula Committee recommends to the Educational Council the addition or deletion of existing curricula and specific changes within curricula.

Victor Hurst (Chairman, ex officio)

E. Gunnin (Arch)	1969	Herbert Brantley (RPA)	1971
J. W. Jones (Agric)	1969	Eugene Park (Math & Pres., Fac. Senate, <u>ex officio</u>)	
M. A. Owings (A&S)	1969	K. N. Vickery (Dean, Adm & Reg., <u>ex officio</u>)	
H. W. Busching (CE)	1970		
C. C. Davis (IM)	1970	Academic Deans	

FACULTY ACADEMIC STANDING COMMITTEES 1968-69 (Continued)

4. Advisory Committee on Ethics and Religion. This committee makes recommendations to the president concerning matters of relationship between the student body and campus and community religious organizations. Committee membership includes the vice-president for student affairs, the vice-president for academic affairs, the ministers of local churches, and the director of the YMCA. The committee recommends its chairman for appointment by the president.

C. E. Raynal (Chairman)

Victor Hurst

C. J. Lupo

C. A. Arrington

B. E. Trent

J. W. Arrington

W. T. Cox

P. H. Lewis

5. Faculty Basic Research. This committee has eight faculty members and two ex officio members, the Comptroller and the Graduate Dean, who serves as chairman. The committee controls expenditures of funds granted to it for use by the faculty in carrying out basic research. Committee funds include income from a gift to the University by the C. W. Kress Foundation, an annual grant from the Alumni Loyalty Fund, and a sum from NSF. Members of the faculty who wish to apply for research grants may do so directly to the Graduate Dean. Grants may be made for publication as well as for research itself.

F. I. Brownley, Jr. (Chairman, ex officio)

W. B. Barlage (ChE & Res. Fac. Council)	1969	M. W. Usrey (Engl)	1970
S. M. Lukawecki (Math)	1969	R. H. Barker (TC)	1971
A. K. Jensen (Media Center)	1970	R. C. Fox (Ent & Zool)	1971
D. W. Lyons (TC)	1970	B. E. Gilliland (EE)	1971
		M. A. Wilson (B-F, <u>ex officio</u>)	

FACULTY ACADEMIC STANDING COMMITTEES 1968-69 (Continued)

6. Fine Arts Series. In July 1965 President Edwards appointed a Fine Arts Series Committee to assist in planning, coordinating, and publicizing these activities. By acting as a clearing agency where ideas and information can be exchanged, the Committee hopes that the cultural environment of the University community can be enhanced. It is planned to issue a master calendar of events from time to time and to maintain special announcements for the art exhibitions, the concert series, and the lecture series.

C. B. Green (Chairman)

A. J. Kaufmann (Arch)	1969	J. L. Young (Arch)	1971
C. O. Shuler (IM)	1969	Victor Hurst (<u>ex officio</u>)	
J. N. Thurston (EE)	1969	W. T. Cox (<u>ex officio</u>)	
R. J. Calhoun (Engl & Fac. Senate)	1969	K. N. Vickery (<u>ex officio</u>)	
		H. E. McClure (<u>ex officio</u>)	
R. W. Hill (Engl)	1970	H. M. Cox (<u>ex officio</u>)	
A. S. Tombes (Ent & Zool)	1970	J. H. Butler (<u>ex officio</u>)	
N. D. Camper (Bot & Bact)	1971		
H. G. Spencer (Chem & Geol)	1971	(Three student members will be selected by the Student Senate.)	

7. Graduate Council. This Council consists of the Dean of the Graduate School, who acts as chairman, and nine professors nominated for three-year terms by the Graduate Dean. This council recommends Graduate School policy to the President via the Dean of the University.

F. I. Brownley, Jr. (Chairman)

J. J. Porter (TC & Res. Fac. Council)	1969	S. M. Lukawecki (Math)	1970
		W. M. McLellon (AgE)	1970
J. N. Thurston (EE & Fac. Senate)	1969	W. C. Godley (AnSci)	1971
W. V. Chalupa (DySci)	1970	A. K. Jensen (Media Center)	1971
E. M. Lander (Hist)	1970	A. J. Kaufmann (Arch)	1971

FACULTY ACADEMIC STANDING COMMITTEES 1968-69 (Continued)

8. Honors and Awards. This committee is composed of twelve members of the faculty and seven ex officio members: two students (one selected by Phi Kappa Phi, one by Phi Eta Sigma), the chairman of the Honors Program Council, the Director of Admissions, the Dean of Men, the Dean of Women, and the Director of Student Financial Aid. The committee nominates students for special annual awards for academic achievement and arranges the program for the annual University Honors and Awards Day. The chairman of the University Honors Program Council is chairman ex officio of this committee.

C. B. Green (Chairman)

John Idol (Engl)	1969	E. N. Tyndall (USAF)	1970
Eugene Park (Math & Fac. Senate)	1969	Barbara W. Morgan (Educ)	1971
J. V. Walters (Text)	1969	R. D. Shannon (Econ)	1971
W. F. Beckwith (ChE)	1970	T. V. Wilson (AgE)	1971
S. F. Hulbert (CrE)	1970	A. M. Bloss (<u>ex officio</u>)	
A. J. Kaufmann (Arch)	1970	G. E. Coakley (<u>ex officio</u>)	
G. E. Stenbridge (Hort)	1970	Susan Delony (<u>ex officio</u>)	
C. F. Tisdale (USA)	1970	K. N. Vickery (<u>ex officio</u>)	

9. Honors Program Council. A Council consisting of nine professors appointed by the Dean of the University. This council recommends policy (including curricula and standards of admission) concerning the University Honors Program. Dr. C. B. Green, Assistant Dean of the University and Professor of English, is chairman.

C. B. Green (Chairman)

J. L. Richardson (IM)	1969	T. E. Douglass (Engl)	1971
M. K. Richardson (CE)	1969	J. D. Fulton (Math)	1971
R. P. Ashworth (Bot)	1970	J. V. Reel (Hist)	1971
M. J. Skove (Phys)	1970	K. N. Vickery (<u>ex officio</u>)	
W. T. Zink (EE)	1970		

FACULTY ACADEMIC STANDING COMMITTEES 1968-69 (Continued)

10. Improvement of Undergraduate Teaching. A standing committee, appointed in 1966 for the first time, to recommend ways and means of improving undergraduate teaching and undergraduate educational programs.

J. H. Hobson 1970 (Chairman)

C. C. Davis (IM)	1969	F. C. Alley (ChE & Fac. Sen.)	1971
H. F. Landrith (Educ)	1969	Ruth L. Hays (Ent & Zool)	1971
H. H. Macaulay (Econ)	1969	A. L. Shewfelt (FdSci & Biochem)	1971
M. A. Owings (Engl)	1969	President, sophomore class	
Robert Hunter (Vis. Studies)	1970	President, junior class	
C. M. Jones (Agron)	1970	President, senior class	
J. T. Long (EE)	1970	Student Senate Appointee	

11. Library. A faculty committee (with the Director of the Library as an ex officio member) which recommends library policy to the Dean of the University. The committee elects its chairman.

(Chairman)

R. C. Fox (Ent & Res. Fac.)	1969	J. F. Pearce (Econ)	1970
J. T. Ligon (AgE)	1969	L. L. Byrd (Educ)	1971
G. B. Savitsky (Chem & Geol)	1969	W. E. Castro (EM)	1971
J. L. Idol (Engl & Fac. Sen.)	1970	D. L. LaTorre (Math)	1971
Ralph Knowland (Arch)	1970	Gordon Gourlay (<u>ex officio</u>)	

12. Patent Committee. This committee makes recommendations to the President concerning all University patent matters in accord with the Patent Policy as printed in the Faculty Manual. The Vice-President for Business and Finance is chairman ex officio.

M. A. Wilson (Chairman, ex officio)

D. W. Bradbury (EG & Fac. Senate)	1969	C. M. McHugh (Engr. Services)	1971
		Wright Bryan (<u>ex officio</u>)	
K. R. Helton (B-F)	1969	T. D. Efland (<u>ex officio</u>)	
G. C. Kingsland (Bot & Res. Fac. Council)	1970	O. B. Garrison (<u>ex officio</u>)	
Eugene Harrison (ME)	1971	Stan Nicholas (<u>ex officio</u>)	

FACULTY ACADEMIC STANDING COMMITTEES 1968-69 (Continued)

13. Safety and Fire Prevention Committee. This committee will counsel and support the University Safety Coordinator (Secretary to the Committee) and assist in the development of safety policies and programs.

C. E. Littlejohn (Chairman)

Muriel B. Bishop (Chem)	1969	N. R. Page (AgChem)	1969
J. P. Burns (Comm. Ctr)	1969	J. A. Stanley (PhysPlant)	1969
T. D. Efland (IM & TS)	1969	W. E. Berry (Personnel, <u>ex officio</u> , Secretary)	
R. C. Fox (Ent & Res. Fac. Council)	1969	J. E. Hair (Medical Ctr, <u>ex officio</u>)	
E. H. McCarter (Bus. & Fin.)	1969	J. W. Weeden (PhysPlant, <u>ex officio</u>)	
D. P. Miller (Phys)	1969	B. H. Wilhelm (Athletic, <u>ex officio</u>)	

14. Schedule. A committee (with the Dean of Admissions and Registration as ex officio chairman) which develops each semester the master schedule of courses taught. Each school or college has appropriate representation.

K. N. Vickery (Chairman)

H. D. Adams (Econ)	C. M. McGee (Engl)
W. C. Bowen (Educ)	C. M. McHugh (EngrSer)
D. W. Bradbury (ME)	C. W. Ulbrich (Phys)
H. E. Broyles (EE)	R. F. Nowack (EM)
J. H. Couch (IE)	E. B. Rogers (AgE)
C. C. Davis (IM)	J. R. Salley (Chem)
J. N. Calhoun (USAF)	I. A. Trively (CE)
E. A. Gunnin (Arch)	J. V. Walters (Text)
R. C. Harshman (ChE)	C. F. Tisdale (USA)
John LaGrone (Math)	J. B. Whitney (Bot)
H. J. Lefort (CrE)	
W. R. Mattox (Adm)	

FACULTY ACADEMIC STANDING COMMITTEES 1968-69 (Continued)15. Special Advisory Committee for Disposal of Poisonous Chemicals

N. R. Page (AgChem), Chairman

J. J. Porter (TC)

Henry Polk (Chem)

Ralph Collins (PhysPlant, ex officio)16. Special Advisory Committee on Use of Radioactive Materials

J. G. Dinwiddie (Chem), Chairman

T. D. Efland (IM-TS)

K. Lehotsky (For)

S. G. Nicholas (Engr)

17. University Archives. This Committee makes recommendations to the Dean of the University concerning acquisition of materials for the University archives. Dr. R. S. Lambert, Head, Social Sciences Department, is chairman ex officio.

R. S. Lambert (Chairman, ex officio)Wright Bryan (Adm), ex officioMrs. R. R. Owens (SocSci &
Fac. Senate)

1970

J. W. G. Gourlay (Lib), ex officio

E. M. Lander (Hist)

1969

18. Traffic and Parking Committee

Ralph Collins (Chairman)

D. W. Bradbury (ME, & Fac.
Sen.)

J. W. Weeden (PhysPlant)

Patricia W. Kissam (Student Affairs)

J. G. Guggino (Student Affairs)

NATO POSTDOCTORAL FELLOWSHIP PROGRAM

Announcements of the NATO Postdoctoral Fellowship Program are available in the Graduate Office. Fields covered are the mathematical, physical, medical, biological, engineering and social sciences, as well as the history and philosophy of science. Deadline for application submission is October 4, 1968.

UNIVERSITY BOWLING LEAGUE

Anyone interested in bowling in the University Bowling League contact: Jim Long (227), Tom Garner (209 or 315) or Bill Shepherd (287).

ESTIMATED NUMBER OF BACHELORS DEGREES TO BE AWARDED

<u>School and Major Course</u>	<u>Dec. 1968</u>	<u>May and Aug. 1969</u>	<u>Total</u>
COLLEGE OF AGRICULTURE AND BIOLOGICAL SCIENCES			
Agricultural Economics	2	12	14
Agronomy	3	8	11
Animal Science	2	10	12
Biology	6	45	51
Dairy Science	1	3	4
Entomology	0	0	0
Food Science	1	3	4
Forestry	6	15	21
Horticulture	2	9	11
Poultry Science	0	3	3
SCHOOL OF ARCHITECTURE			
Pre-Arch	3	5	8
Architecture	3	29	32
Building Construction	0	8	8
COLLEGE OF ARTS AND SCIENCES			
Arts and Sciences (BA)	22	114	136
Chemistry	0	13	13
Geology	1	7	8
Mathematics	1	30	31
Medical Technology	1	0	1
Physics	0	11	11
Pre-Medicine	4	51	55
SCHOOL OF EDUCATION			
Agricultural Education	7	14	21
Elementary Education	5	25	30
Industrial Education	5	18	23
Recreation and Park Administration	14	20	34
Science Teaching	2	18	20
Secondary Education	4	35	39

ESTIMATED NUMBER OF BACHELORS DEGREES TO BE AWARDED (Continued)

<u>School and Major Course</u>	<u>Dec. 1968</u>	<u>May and Aug. 1969</u>	<u>Total</u>
COLLEGE OF ENGINEERING			
Agricultural Engineering	0	4	4
Ceramic Engineering	7	15	22
Chemical Engineering	1	34	35
Civil Engineering	14	49	63
Electrical Engineering	11	45	56
Industrial Engineering	6	3	9
Mechanical Engineering	17	30	47
Metallurgical Engineering	0	5	5
SCHOOL OF INDUSTRIAL MANAGEMENT AND TEXTILE SCIENCE			
Economics	20	55	75
Industrial Management	34	105	139
Textile Chemistry	2	4	6
Textile Management	0	2	2
Textiles	4	10	14
Total	211	867	1078

NEW FACULTY AND STAFF 1968-69College of Agriculture and Biological Sciences

Coss, Harold Thomas, Instructor in Entomology and Zoology; B.S., Bob Jones University; M.A., Appalachian State University; Married; Box 34541, Greenville

Wallace, Frederick Lance, Instructor in Entomology and Zoology; B.S., Iowa Wesleyan College; M.S., Oklahoma State University; Married; 100 Calhoun Street

College of Arts and Sciences

Findlen, George Lewis, Instructor in English; B.A., St. Francis College; M.A., Indiana University; Single

College of Engineering

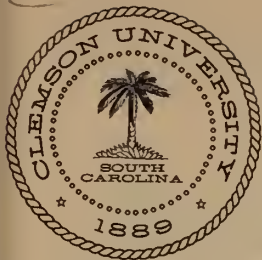
Coleman, Robert A., Part-time Instructor in Civil Engineering; B.S., Clemson University; M.S., Georgia Tech; Single

CALENDAR OF CAMPUS EVENTS

Sept.	2-24	M-Tu		Art of the City - Rudolph Lee Gallery, Lee Hall
Sept.	2	M	9:00 a.m.	Educational Council Meeting
Sept.	5	Th	3:45 p.m.	Woman's Club Reception for Newcomers, Clemson House
Sept.	5	Th	8:00 p.m.	Graduate Wives meeting, YMCA
Sept.	9-10	M-Tu		Short School for Water & Waste Water Treatment Plant Operators, Clemson University at Sumter
Sept.	10	Tu	4:00 p.m.	Seminar - Biochemistry - 123 Agricultural Engineering Building. Dr. Alfred E. Wilhelmi, Professor of Biochemistry at Emory University will speak on "Chemical Studies of Porcine Growth Hormone."
Sept.	11	W	8:00 p.m.	CDA Concert, Fike Field House
Sept.	17	Tu	4:00 p.m.	Research Faculty Council
Sept.	20	F	9:00 p.m.- 1:00 a.m.	CDA Rat Hop, Dining Hall (Harcombe Commons)
Sept.	21	Sat	1:30 p.m.	Football, Wake Forest at Winston-Salem, N. C.
Sept.	21	Sat	8:00 p.m.- 12:00 p.m.	CDA Rat Hop, Dining Hall (Harcombe Commons)
Sept.	22	Sun	2:00 p.m.- 4:00 p.m.	CDA Concert, Fike Field House

SCIENCE FACULTY FELLOWSHIP AWARDS

The announcement of Science Faculty Fellowship Awards, for the improvement of college science, mathematics and engineering teaching, has recently been issued by NSF. Copies of the announcement are available in the Graduate Office, and the deadline for submission of application is October 7, 1968.



CLEMSON NEWSLETTER

SEP 16 1968
INFORMATION FOR THE STAFF OF CLEMSON UNIVERSITY

Vol. 8 No. 3

September 15, 1968

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SOUTH CAROLINA

THE CARNEGIE REPORT ON FEDERAL AID TO HIGHER EDUCATION: AN ESSENTIAL INVESTMENT IN THE NATION'S FUTURE

This statement issued by the Carnegie Commission on Higher Education in July, 1968, contains the following observations on the special character of American Higher Education:

"Higher education in the United States has evolved in directions unique to the special needs of this country and of our free society. It is the conviction of this Commission that higher education will best continue to serve the nation as it: creates opportunities for all able young people, provides free choice of institutions to students, relies upon multiple sources of income, preserves its diversity of programs and control."

In conclusion the statement lists what it calls "The Essential Actions":

"The Carnegie Commission on Higher Education believes that the most urgent national priorities for higher education between now and 1975 are:

Provision for 1 million additional students who are now barred for financial reasons from our colleges and universities.

Training facilities for 60% more medical students to serve the nation's essential health needs.

Places for 60% more Ph.D. candidates to provide the teachers and researchers required to keep pace with the explosion of knowledge.

"To enable our colleges and universities to meet these national priorities and to continue expanding other essential programs, the Commission urges that the present levels of federal aid to higher education be doubled in the immediate future--from \$4 billion to \$8 billion per year."

Complete copies of the statement can be obtained by writing: The Carnegie Commission on Higher Education, 1947 Center Street, Berkeley, California 94704.

SUMMARY OF THE MINUTES OF THE RESEARCH FACULTY COUNCIL, AUGUST 20, 1968

The Council discussed the material that should properly be included in the minutes. Dr. Byrd reported to the Ad Hoc Committee that Dean Brownley has offered to publish and distribute the brochure for research workers that this committee is preparing. Dr. Fox reported on his liaison activities with the Faculty Senate. The Policy Committee, the Ad Hoc Committee (research brochure), and the Personnel Relations Committee had no reports to offer at this time.

SUMMARY OF THE MINUTES OF THE FACULTY SENATE, AUGUST 27, 1968

The following chairmen of Faculty Senate standing committees were appointed: Admissions and Scholarship, J. K. Reed (Entomology); Committee on Policy, S. M. Lukawecki (Mathematics); and Welfare, D. W. Lyons (Textile Science).

The Faculty Senate endorsed a proposal for the creation of a policy concerning the conducting of Clemson University summer study programs abroad. The Senate recommended that a restriction against auditing courses of this type be deleted and that further study should be made in regard to the collection of both university fees and payments to be made to the travel agencies involved. The Senate felt that a more specific statement concerning the salary of participating faculty members should be established.

GIFTS AND GRANTS

The Southern Forest Disease and Insect Research Council, \$2,400 to Entomology and Zoology, for research to be conducted by Dr. R. C. Fox involving the pitch eating weevil.

Shell Chemical Company, \$200 to Botany and Bacteriology, for testing of insecticides on nematodes.

CIBA Agrochemical Company, \$500 to Entomology and Zoology, for research involving efficacy of insecticide on horn fly.

J. C. Fanning (Ch) has been awarded a \$5,000 grant by the Gulf Oil Corporation for support of research in adsorption of acid gases by solid coordination compounds.

SMITH APPOINTED ADMISSIONS OFFICER

Stanley B. Smith, Jr., has joined the Office of Admissions and Registration as Admissions Officer. Mr. Smith completed his undergraduate work at Furman University in 1962. Following graduation, he served two years as a lieutenant in the U. S. Army in Alaska. He taught mathematics at Wade Hampton High School, Greenville, prior to joining the Clemson staff. In June 1968 he received the M. A. degree from Furman and this summer participated in the National Science Foundation Mathematics Institute at Clemson.

Mrs. Smith is the former Sandra Hunter of Easley. They have one daughter, Laura Lynn.

BUTLER AWARDED DOCTORAL DEGREE

Dr. John H. Butler (Dir Bands/Assoc Prof of music education) received the first doctoral degree awarded in music by the University of Georgia on Aug. 23. Dr. Butler has been on a two-year leave of absence from Clemson while studying toward his terminal degree.

1968 COURSES FOR PROFESSIONAL DEVELOPMENT IN THE SCHOOL OF INDUSTRIAL MANAGEMENT AND TEXTILE SCIENCE

The year 1968 was another record-breaking one for Clemson's Professional Development Program. In this, its 11th year, the 16 courses that were offered attracted 236 students from 20 states and Canada. These returning professional students represented 120 various organizations, hospitals, U. S. Government offices and several universities.

Their occupational positions ranged from management trainees to top administrators and from foremen to corporation treasurers; 84 various positions in all covering many specialized fields.

Two new programs were instituted for 1968:

The first annual Textile Marketing Forum became the most publicized event of its type held on the campus in recent years. The Forum featured outstanding people in the fields of Textile and Fabric Design, Production, and Marketing. It attracted press notices from across the nation in publications like Home Furnishings Daily, Textile World and New York Times, Daily News Record and complete regional coverage.

The Hospital Executive Development Program was very well attended by hospital executives from 17 hospitals in several states. Three outstanding experts in the field of Hospital Administration participated in the instructions along with Clemson faculty members.

With a total enrollment of 1,298 participants since its inception in 1958, Clemson University's Professional Development Program stands ready to provide a much needed service to industry and business on as broad a basis as these areas might demand.

NOTED SCIENTIST TO PRESENT FOUR SEMINARS

Dr. Donald R. Lamond, a National Science Foundation senior foreign scientist and visiting professor of animal science from St. Lucia, Queensland, Australia, will present a series of four seminars dealing with farm animal reproduction.

The first seminar was presented Sept. 12. The remaining sessions, and their topics, will be presented in Room C-127 of the Plant and Animal Science Building at 4 p.m. on the following dates: Oct. 3--Monitoring Ovarian Function; Oct. 10--Monitoring Ovarian Function Continued; Nov. 7--Synchronization of Estrus.

TWENTY-THIRD CONFERENCE ON EARLY AMERICAN HISTORY

On October 4-5 the Department of Social Sciences will sponsor the Twenty-Third Conference on Early American History at the Clemson House. The theme for the Conference will be Religion in Early America and the program is as follows:

Friday, October 4

2:30 p.m. First Session - Gold Room
Presiding: George C. Rogers, Jr., University of South Carolina

Welcome: President Robert C. Edwards

"Demographic Variants in the Colonial Response to George
Whitefield, 1739-1754"
William H. Kenney, Kent State University

"Revival in the Back Country of the Carolinas and Georgia,
1755-1775"
David T. Morgan, Jr., Texas A & M University

Comment: J. M. Bumsted, McMaster University

Discussion

7:00 p.m. Dinner - Gold Room
Address: Alan Heimert, Harvard University

Saturday, October 5

9:30 a.m. Second Session - Gold Room
Presiding: Newton B. Jones, Furman University

"New Directions in the Study of Early American Puritanism"
Michael McGiffert, University of Denver

Comment: John K. Nelson, University of North Carolina at
Chapel Hill
Jesper Rosenmeier, Tufts University

Discussion

The registration fee for the Conference is \$6.50 and includes the dinner. The sessions are open to interested members of the Clemson faculty and community. For information and reservations contact R. S. Lambert, Department of Social Sciences, extensions 478, 479.

ADMINISTRATION

R. C. Edwards (President) and C. B. Green (Asst Dean) attended the opening convocation of Clemson University at Sumter on August 23, at which time President Edwards addressed the faculty and students.

W. D. Trevillian (Dean, IM & TS) will open the Spartanburg Administrative Management Society's 1968-1969 season on September 17. He will also address the Personnel Relations Division of the S. C. Textile Manufacturers' Association at Hilton Head on September 19 on the topic "The College Graduate in the Textile Industry."

BOTANY AND BACTERIOLOGY

Graydon C. Kingsland (Assoc Prof) recently attended a three-week Short Course for Teachers of Introductory Plant Pathology held August 4 to 23 at Cornell University.

CHEMISTRY

J. W. Huffman (Prof) presented a paper, "Synthesis and Stereochemistry of Reduced Abietic Acids," at the 5th International Symposium on Chemistry of Natural Products, sponsored by the International Union of Pure and Applied Chemists, London, July 8-13. The co-author was J. A. Alford (graduate student, Ch).

CIVIL ENGINEERING

R. E. Elling (Asst Prof) attended Finite in Elements Techniques in Structural Analysis Course at Cornell University in New York, August 12-23.

W. A. Welsh (Asst Prof) attended an NSF Summer Institute on Matrix Methods of Structural Analysis at Madison, Wisconsin, June 24-August 16.

ECONOMICS

B. R. Skelton (Assoc Prof) presented a series of five lectures on "The Economic Problems of the Disadvantaged" at Kingstree in a conference sponsored by the Williamsburg Public Schools on the "Assimilation of the Disadvantaged into the Public School System."

ELEMENTARY AND SECONDARY EDUCATION

Barbara Morgan (Asst Prof) and Myrton Packer (Assoc Prof) were lecturers at the inservice meeting of Anderson County District 2 public schools on August 22. Dr. Packer spoke on "Social and Economic Problems of the Disadvantaged Child." Dr. Morgan followed this lecture with a discussion of the "Psychological Impact of Deprivation on the Schooling of the Disadvantaged Child."

ELEMENTARY AND SECONDARY EDUCATION (Continued)

M. A. Packer (Assoc Prof), B. R. Skelton (Assoc Prof), and W. C. Capel (Asst Prof) conducted a five-day Institute for principals and guidance counselors of Williamsburg County on the Social, Economic, and Psychological Problems of the Disadvantaged Child on August 12-16.

Thomas Parry (Asst Prof), Barbara Morgan (Asst Prof), and Myrton Packer (Assoc Prof) represented Clemson as consultants in a workshop in Remedial Reading and Speech Correction conducted in Anderson this summer for public school teachers.

ENGLISH AND MODERN LANGUAGES

Rob Roy McGregor (Asst Prof) had a brief article entitled "An Error in a Letter of Flaubert to Baudelaire?" published in Romance Notes, IX, 2, 1968.

EXPERIMENTAL STATISTICS

W. P. Byrd (Prof) attended the Annual Meeting of the University Statisticians of Southern Experiment Stations, July 15-17 at Texas A & M University, and participated in panel discussion on the use of computers in teaching statistics to researchers.

INDUSTRIAL MANAGEMENT

C. H. Whitehurst (Hd) has published an article, "Idea Management," in the July, 1968, issue of the Journal of Industrial Engineering.

C. O. Shuler (Assoc Prof) has been named to the Editorial Board of the Clemson University Review of Industrial Management and Textile Science. He has also recently been appointed national vice-president of the University Division of the Society for Advancement of Management.

During the past summer, C. O. Shuler (Assoc Prof) conducted Clemson's first continuing education seminar in Hospital and Health Service Administration, which had an enrollment of 28 registered students. He was also Project Coordinator to develop an Econometric Analysis of Hospital Demand for the Greenville Hospital System.

INTERDISCIPLINARY STUDIES IN ENGINEERING

S. F. Hulbert (Hd) participated in the Second Solid Waste Research and Development Engineering Foundation Research Conference, Beaver Dam, Wisconsin, from July 22-26. He presented a paper entitled, "Kinetics of the Reaction Between MgSO_4 and Cr_2O_3 " at the Second International Conference on Thermal Analysis, Holy Cross College, Worcester, Massachusetts, on August 19. He also presented a paper entitled, "Kinetics and Mechanism of the Reaction Between MgO and Cr_2O_3 " at the Sixth International Symposium for the Reactivity of Solids, Schenectady, New York, on August 29.

MECHANICAL ENGINEERING

T. T. Yang (Assoc Prof) participated as a Summer Faculty Fellow at Lewis Research Center, NASA, during the summer of 1968.

C. S. Rudisill (Asst Prof) attended a seminar, sponsored by NSF, on "Computer Aided Design in Engineering Education" at the University of Houston for eight weeks during the past summer. He will also conduct a workshop, consisting of six meetings, in Greenville on "Fortran IV Programming for Engineers" beginning on October 2. He attended a seminar on "The Applications of Composite Materials" sponsored by the Engineering Mechanics Department, College of Engineering, Pennsylvania State University from September 9 to September 12.

REGISTRATION AND ADMISSIONS

W. R. Mattox (Asst Dir of Admissions) is serving as a credential analyst in the Agency for International Development in Washington, D. C., for a two-week period, which began Sept. 3. Selected by the American Association of Collegiate Registrars and Admissions Officers for this joint AACRAO-AID project, he is evaluating the academic credentials of foreign candidates for sponsored study at U. S. institutions of higher learning.

TEXTILES

Frederick T. Simon, one of the nation's leading experts in the field of color science, has been appointed J. E. Sirrine Visiting Professor of Textile Science. Professor Simon completed his undergraduate work at Philadelphia Textile Institute and Carnegie Institute of Technology and received the master of science degree from Marshall University.

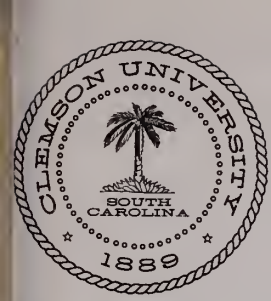
B. C. Goswami (Visiting Lecturer) as co-author with J. W. S. Hearle of Manchester University in England has published two papers in the August, 1968, issue of the Textile Research Journal. They are entitled "Migration of Fibers in Yarns, Part VI -- The Correlogram Method of Analysis" and "Migration of Fibers in Yarns, Part VII -- Further Experiments on Continuous Filament Yarns."

J. J. Porter (Assoc Prof) was a seminar speaker for the research staff at P. Lorillard Company in Greensboro, North Carolina, on July 18. The subject of the seminar was "Cellulose Model Compound Reactions."

E. S. Olson (Assoc Prof) is the vice-chairman of the Program Committee of the American Association of Textile Colorists and Chemists 1969 National Technical Conference to be held in Charlotte, North Carolina.

CALENDAR OF CAMPUS EVENTS

Sept.	17	Tu	12:00 p.m.- 1:30 p.m.	Women of Teaching Faculty Luncheon, Clemson House
Sept.	17	Tu	4:00 p.m.	Research Faculty Council
Sept.	19	Th	4:00 p.m.	Seminar - Chemistry - 131 Brackett Hall. Dr. Richard K. Hill, Professor of Chemistry at the University of Georgia will speak on "Asymmetric Induction in Molecular Rearrangements."
Sept.	20	F	9:00 p.m.- 1:00 a.m.	CDA Rat Hop, Dining Hall (Harcombe Commons)
Sept.	21	Sat	1:30 p.m.	Football, Wake Forest at Winston-Salem, N. C.
Sept.	21	Sat	8:00 p.m.- 12:00 p.m.	CDA Rat Hop, Dining Hall (Harcombe Commons)
Sept.	22	Sun	2:00 p.m.- 4:00 p.m.	CDA Concert, Fike Field House
Sept. Oct.	26- 16	Th-W		German Medieval Sculpture - Rudolph Lee Gallery, Lee Hall
Sept.	27	F	3:00 p.m.	Freshman Football - Wake Forest at Clemson
Sept.	28	Sat	2:00 p.m.	Soccer, Emory University
Sept.	28	Sat	2:00 p.m.	Football, University of Georgia at Athens, Ga.
Oct.	3	Th	4:00 p.m.	Seminar in Room C-127, P&AS, by Dr. D. R. Lamond "Monitoring Ovarian Function."
Oct.	3	Th	8:00 p.m.	Graduate Wives Meeting, YMCA - Dr. C. W. Bolen, Speaker
Oct.	4	F	8:00 a.m.	Dental Aptitude Test, Room 20, Tillman Hall
Oct.	4	F	3:00 p.m.	Freshman Football - University of Georgia at Athens, Ga.
Oct.	5	Sat	2:00 p.m.	Soccer, University of Maryland
Oct.	5	Sat	2:00 p.m.	Football - Georgia Tech at Atlanta, Ga.



CLEMSON

NEWSLETTER

INFORMATION FOR THE STAFF OF CLEMSON UNIVERSITY

Vol. 8 No. 4

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October 1, 1968

UNITED STATES OFFICE OF EDUCATION REPORT

OCT 2 1968

"College enrollment this fall is expected to total 6.7 million, an increase of 6.3 percent over last year's 6.3 million, the U. S. Office of Education reported this week in its annual forecast. USOE pointed out that figures for both years exclude approximately 600,000 undergraduates enrolled in occupational or general studies programs which are not ordinarily creditable toward a bachelor's degree.

"Other highlights about higher education from the forecast:

--An instructional staff slightly exceeding 500,000 is anticipated, an increase of 4.8 percent over the 480,000 engaged in college teaching in 1967. 'The trend in recent years has been toward larger classes and greater utilization of graduate assistants in the classroom,' USOE said.

--The average salary of instructional staff is expected to exceed \$10,800, based on previous surveys by the American Association of University Professors which indicated salaries have risen at a rate of approximately six percent annually.

--Record numbers of degrees are scheduled to be awarded in 1968-69. The forecast (with 1967-68 estimated degrees in parentheses): 750,000 bachelor's and first professional degrees (690,000); 160,000 master's degrees (150,000); and 24,000 doctoral degrees (22,000). The report noted that in the past ten years the number of bachelor's degrees has almost doubled, master's degrees have risen by 129 percent, and doctoral degrees by 146 percent.

--Total expenditures for public and private education from kindergarten through the graduate school are expected to reach \$58.5 billion, of which \$20.4 billion is for higher education.

--Federal grants to higher education rose from \$1.5 billion in 1964 to \$3.8 billion in 1968. For adult, vocational-technical, and continuing education, the report said, the increase in the same period was from \$200 million to \$1.1 billion.

"At the secondary school level (grades 9 through 12), USOE said enrollment is likely to increase from 13.7 million to 14.2 million, a gain of 3.6 percent. At the elementary school level (kindergarten through grade 8), a rise of 0.8 percent, from 36.4 million to 36.7 million, is anticipated. The report said this modest increase reflects the gradual decline in the number of children born annually since 1961. It added that small annual reductions in the number of elementary school pupils are expected in the early and middle 1970s."

TEXTILE DEPARTMENT GETS \$20,000 COMPUTER

A \$20,000 colorant-mixture computer has been given to the textile department by Coats & Clark, Inc., one of the nation's leading manufacturers of sewing threads, wool knitting yarns, and zippers. The new computer, designed and built by Davidson and Hemmendinger of Easton, Pa., will be used in conjunction with courses to be offered in color formulation as well as in research work at both the undergraduate and graduate levels. The computer also provides textile students with the opportunity of learning more about the operation of a color computer and its related importance to industry.

MECHANICAL ENGINEERING SPONSORS OFF-CAMPUS WORKSHOP

The department of mechanical engineering is sponsoring an off-campus workshop in "Fortran IV Programming for Engineers," beginning October 2 and continuing each Wednesday evening from 7 - 10 p.m. through November 6. Classes will be held in Room 106, Classroom Building, Furman University. Engineers employed in the greater Greenville-Spartanburg area will study three major areas of instruction: an introduction to the digital computer and the Fortran IV System; digital computer methods; and the application of engineering problems. The workshop is being conducted by Dr. Carl S. Rudisill (Asst Prof).

WOODROW WILSON NATIONAL FELLOWSHIPS

During 1968-1969 the Woodrow Wilson National Fellowship Foundation will seek to identify 1000 prospective first-year graduate students among the seniors of colleges and universities in the United States and Canada. The Foundation, however, will only be able to finance 100 fellowships in the United States and 50 in Canada. All others, who are selected, will be recommended to graduate schools, but there will be no stipend from the Foundation. All designates attending graduate schools in 1969-1970, and considering college teaching careers, will be awarded the title, Woodrow Wilson Fellow.

The Foundation primarily seeks candidates in the humanities and social sciences, but science and mathematics majors with a clear interest in a teaching career may also be nominated.

Every candidate must be nominated by a faculty member no later than October 20, 1968. Forms sent to the candidate upon nomination must be returned to the Regional Chairman by November 15, 1968. Nominations from Clemson University should be sent to Dean Bond Fleming, Oxford College of Emory University, Oxford, Georgia 30267.

The Woodrow Wilson Campus Representative at Clemson is Dean Claud B. Green, 28 Tillman Hall.

IMPACT OF SCIENCE AND ENGINEERING UPON SOCIAL CHANGE

A series of lectures on the general subject "IMPACT OF SCIENCE AND ENGINEERING UPON SOCIAL CHANGE" will be given during the present academic year. Under sponsorship of the Clemson University Lecture Series, the College of Engineering, and the Graduate School, the following speakers will be presented at the dates and times indicated:

Dr. W. V. Consolazio NSF	October 8, 1968	4:00 p.m.
Dr. Melvin Kranzbert Case-Western Reserve University	January 8, 1969	4:00 p.m.
Dr. M. M. Hufschmidt UNC - Chapel Hill	February 11, 1969	4:00 p.m.
Dr. Athelstan Spilhaus Franklin Institute	March 10, 1969 (tentative)	4:00 p.m.

These lectures designed for upperclassmen, graduate students, and faculty will be held in Earle Hall Auditorium.

FACULTY BASIC RESEARCH AWARDS

The Faculty Basic Research Committee at its meeting on September 16 made the following awards:

Dr. Luther W. Baxter (Bot), \$750 for "A STUDY OF THE INFLUENCE OF WAVE LENGTH OF LIGHT ON CONIDIAL PRODUCTION IN A STRAIN OF GLOMERELLA CINGULATA."

Dr. David S. Snipes (Geol), \$1,000 for "METASOMATISM AND CONTACT METAMORPHISM AT THE MASTER'S KILN, LAURENS COUNTY, SOUTH CAROLINA."

Dr. John R. Bacon (Ch), \$880 for "COULOMETRIC GENERATION OF METAL IONS."

Dr. John Lundberg (Text), \$1,500 for purchase of precision optical bench.

Dr. D. L. Bruley (ChE), \$1,150 for purchase of two electrometers.

GIFTS AND GRANTS

Shell Chemical Company, \$4,500 to Entomology and Zoology, for testing of Shell insecticides.

Shell Chemical Company, \$750 to Horticulture, for studies involving weed control in cucurbits.

Oct. 1, 1968

CLEMSON UNIVERSITY

ADMISSIONS AND REGISTRATION

Enrollment by Men and Women - Full Time and Part Time

First Semester 1968-1969

Classification	Men			Women			Total		
	Full Time	Part Time	Total	Full Time	Part Time	Total	Full Time	Part Time	Total
1st Sem. Freshmen	1374	4	1378	298	2	300	1672	6	1678
2nd Sem. Freshmen	192	1	193	46	3	49	238	4	242
Sub-Total	1566	5	1571	344	5	349	1910	10	1920
1st Sem. Sophomore	961	7	968	139	5	144	1100	12	1112
2nd Sem. Sophomore	199	2	201	23	1	24	222	3	225
Sub-Total	1160	9	1169	162	6	168	1322	15	1337
1st Sem. Junior	826	1	827	110	3	113	936	4	940
2nd Sem. Junior	277	0	277	34	3	37	311	3	314
Sub-Total	1103	1	1104	144	6	150	1247	7	1254
1st Sem. Senior	702	2	704	89	3	92	791	5	796
2nd Sem. Senior	418	12	430	23	4	27	441	16	457
Sub-Total	1120	14	1134	112	7	119	1232	21	1253
1st Sem. Fifth Year	20	0	20	0	0	0	20	0	20
2nd Sem. Fifth Year	23	1	24	1	0	1	24	1	25
Sub-Total	43	1	44	1	0	1	44	1	45
Total	4992	30	5022	763	24	787	5755	54	5809
Graduate - Master's Level	220	125	345	46	76	122	266	201	467
Graduate - Ph. D. Level	106	93	199	5	3	8	111	96	207
Postgraduates	13	14	27	3	3	6	16	17	33
Non-Degree Students	0	1	1	1	7	8	1	8	9
Total	339	233	572	55	89	144	394	322	716
Grand Total	5331	263	5594	818	113	931	6149	376	6525
Greenville Center	105	11	116	24	8	32	129	19	148
Sumter Center	112	6	118	39	9	48	151	15	166
Overall Total	5548	280	5828	881	130	1011	6429	410	6839

Enrollment by Courses and Academic Classification
Clemson University
First Semester 1968-1969

Major Course	Freshman (Semester)		Sophomore (Semester)		Junior (Semester)		Senior (Semester)		Total
	1st	2nd	1st	2nd	1st	2nd	1st	2nd	
Agriculture	0	0	0	0	0	0	0	0	0
Agricultural Economics	12	3	17	5	17	4	8	8	74
Agricultural Engineering	12	0	8	3	6	2	8	0	39
Agronomy	4	0	10	3	8	0	9	5	39
Animal Science	7	4	3	2	12	2	11	6	47
Biology	46	7	33	14	52	15	31	17	215
Dairy Science	3	0	2	0	3	4	4	2	18
Entomology	0	0	1	0	1	1	0	0	3
Food Science	9	1	3	0	3	0	3	2	21
Forestry	44	8	25	5	17	4	10	16	129
Horticulture	7	2	9	2	4	5	5	11	45
Poultry Science	2	0	3	1	1	2	3	1	13
Pre-Veterinary	34	4	24	4	4	0	0	0	70
Sub-Total	180	29	138	39	128	39	92	68	713
Architecture	0	0	3	7	39	7	45(a)	35(b)	136
Building Construction	15	3	19	2	12	8	24(c)	12(d)	95
Pre-Architecture	67	7	48	3	3	2	2	2	134
Sub-Total	82	10	70	12	54	17	71	49	365
Arts and Sciences	230	54	130	23	132	40	85	33	727
Chemistry	31	0	16	2	9	3	13	3	77
Geology	5	2	3	1	6	3	2	3	25
Mathematics	77	6	33	7	27	3	26	5	184
Medical Technology	14	1	8	0	4	3	2	0	32
Nursing	33	2	20	0	0	1	0	0	56
Physics	10	1	13	3	6	1	9	0	43
Pre-Medicine	149	9	89	10	58	10	48	10	383
Pre-Pharmacy	16	0	7	1	0	0	0	1	25
Sub-Total	565	75	319	47	242	64	185	55	1552
Agricultural Education	19	7	23	5	7	6	15	9	91
Elementary Education	58	11	28	8	16	6	27	6	160
Industrial Education	15	9	24	10	20	13	25	12	128
Recreation & Park Adm.	47	26	44	14	59	35	44	24	293
Science Teaching	1	2	8	3	10	5	10	6	45
Secondary Education	68	8	41	7	40	17	25	9	215
Sub-Total	208	63	168	47	152	82	146	66	932
Engineering	37	4	23	1	2	0	0	0	67
Ceramic Engineering	11	0	13	2	13	1	13	11	64
Chemical Engineering	58	4	34	3	39	6	24	18	186
Civil Engineering	104	8	73	11	45	14	47	28	330
Electrical Engineering	145	11	64	10	42	9	50	28	359
Industrial Engineering	0	0	0	0	1	1	4	8	14
Mechanical Engineering	82	5	55	14	46	17	30	29	278
Metallurgical Engineering	0	0	2	1	3	1	5	1	13
Sub-Total	437	32	264	42	191	49	173	123	1311
Economics	68	15	49	14	66	30	45	27	314
Industrial Management	114	16	86	23	92	31	93	81	536
Textile Chemistry	8	0	5	0	4	0	4	3	24
Textiles	16	2	13	1	11	2	7	10	62
Sub-Total	206	33	153	38	173	63	149	121	936
Total	1678	242	1112	225	940	314	816	482	5809
Graduates - Master's Level									467(e)
Graduates - Ph.D. Level									207
Postgraduates									33(f)
Non-Degree Students									9
Total									716
Grand Total									6525
Greenville Center									148
Sumter Center									166
Overall Total									6839

(a) Includes fourteen who are in the first semester of the fifth year.

(b) Includes twenty-one who are in the second semester of the fifth year.

(c) Includes six who are in the first semester of the fifth year.

(d) Includes four who are in the second semester of the fifth year.

(e) Includes forty-one off-campus at Greenville.

(f) Includes three off-campus at Greenville.

ENROLLMENT TRENDS

TABLE I--FIRST-SEMESTER UNDERGRADUATE ENROLLMENT BY COLLEGES OR SCHOOLS

College or School	1963- 1964	1964- 1965	1965- 1966	1966- 1967	1967- 1968	1968- 1969
Agriculture and Biological Sciences ¹	555	584	551	608	695	713
Architecture	276	289	342	323	357	365
Arts and Sciences ^{3, 4}	926	1095	1374	1530	1443	1552
Education ^{1, 2, 3}			111	307	658	932
Engineering ²	1534	1494	1504	1484	1346	1311
Industrial Management and Textile Science ⁴	786	754	727	734	888	936
Total	4077	4216	4609	4986	5387	5809

TABLE II--PERCENT OF UNDERGRADUATE STUDENT ENROLLMENT BY COLLEGES OR SCHOOLS

College or School	1963- 1964	1964- 1965	1965- 1966	1966- 1967	1967- 1968	1968- 1969
Agriculture and Biological Sciences ¹	13.6	13.9	12.0	12.2	12.9	12.3
Architecture	6.8	6.8	7.4	6.5	6.6	6.3
Arts and Sciences ^{3, 4}	22.7	26.0	29.8	30.7	26.8	26.7
Education ^{1, 2, 3}			2.4	6.1	12.2	16.0
Engineering ²	37.6	35.4	32.6	29.8	25.0	22.6
Industrial Management and Textile Science ⁴	19.3	17.9	15.8	14.7	16.5	16.1
Total	100.0	100.0	100.0	100.0	100.0	100.0

1. Agricultural Education included under Agriculture and Biological Sciences through 1964-1965.

2. Industrial Education included under Engineering through 1964-1965.

3. Science Teaching included under Arts and Sciences through 1964-1965.

4. Economics included under Arts and Sciences through 1966-1967.

TABLE III--FIRST-SEMESTER ENROLLMENT OF FIRST-SEMESTER FRESHMEN BY COLLEGES OR SCHOOLS

College or School	1963- 1964	1964- 1965	1965- 1966	1966- 1967	1967- 1968	1968- 1969
Agriculture and Biological Sciences ¹	147	153	161	168	192	180
Architecture	89	85	102	72	90	82
Arts and Sciences ^{3, 4}	273	370	472	425	498	565
Education ^{1, 2, 3}			11	66	156	208
Engineering ²	550	560	584	550	490	437
Industrial Management and Textile Science ⁴	167	161	203	165	187	206
Total	1226	1329	1533	1446	1613	1678

TABLE IV--PERCENT OF FIRST-SEMESTER FRESHMAN ENROLLMENT BY COLLEGES OR SCHOOLS

College or School	1963- 1964	1964- 1965	1965- 1966	1966- 1967	1967- 1968	1968- 1969
Agriculture and Biological Sciences ¹	12.0	11.5	10.5	11.6	11.9	10.7
Architecture	7.2	6.4	6.7	5.0	5.6	4.9
Arts and Sciences ^{3, 4}	22.3	27.9	30.8	29.4	30.9	33.7
Education ^{1, 2, 3}			.7	4.6	9.6	12.4
Engineering ²	44.9	42.1	38.1	38.0	30.4	26.0
Industrial Management and Textile Science ⁴	13.6	12.1	13.2	11.4	11.6	12.3
Total	100.0	100.0	100.0	100.0	100.0	100.0

1. Agricultural Education included under Agriculture and Biological Sciences through 1964-1965.

2. Industrial Education included under Engineering through 1964-1965.

3. Science Teaching included under Arts and Sciences through 1964-1965.

4. Economics included under Arts and Sciences through 1966-1967.

AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

J. M. Stepp (Alumni Prof) attended a meeting of a program planning committee for a conference on "Improving the Quality of Physical Environment of the South." The meeting was held in Raleigh, N. C. on September 12. The conference, sponsored by the Agricultural Policy Institute of North Carolina State University and the Southern Office of the Council of State Governments, will be held at Atlanta, Georgia, on December 16 and 17, 1968.

On September 16, J. M. Stepp (Alumni Prof) presented a lecture, "Economic Factors in Water Pollution Control," at a technical training course conducted by the Federal Water Pollution Control Administration at the Southeast Water Research Laboratory, United States Department of Interior, at Athens, Ga.

W. J. Lanham (Prof/Hd) gave the keynote address on "Importance of Agriculture to the South Carolina Economy" at the Farm Labor Conference, South Carolina Employment Security Commission, Columbia, September 17, 1968.

BOTANY AND BACTERIOLOGY

G. M. Armstrong (Prof), J. K. Armstrong (Plant Path), W. M. Dowler (Plant Path), and W. M. Epps (Hd) attended the 1st International Congress of Plant Pathology in London, England, in July. Dr. Dowler presented a paper entitled "Bacterial Canker of Stone Fruits in the Southeastern United States."

ELECTRICAL ENGINEERING

Robert W. Snelsire (Assoc Prof) attended a two-week course on Automata Theory at the University of California at Los Angeles during the last of August.

ENGINEERING MECHANICS

Conor D. Johnson (Ph.D. Candidate) and Nelson R. Bauld (Assoc Prof) have had a paper, "Dynamic Stability of Rectangular Sandwich Plates Under Pulsating Loads," accepted for publication in the November or December issue of the American Institute of Aeronautics and Astronautics Journal.

ENVIRONMENTAL SYSTEMS ENGINEERING

M. J. B. Paynter (Asst Prof) and H. R. Bungay (Prof) were co-authors of a paper, "Dynamics of Coliphage Infections in Continuous Culture," presented at the 3rd International Fermentation Symposium held at Rutgers University.

FERTILIZER INSPECTION AND ANALYSIS

B. D. Cloaninger (Dir) appeared on the program of the National Fertilizer Solutions Association in Atlanta, Ga., July 25, and in St. Louis, Missouri, on August 13. He talked on "Sampling Suspension Fertilizer."

LIBRARY

At the meeting of the University Library Committee, Tuesday, September 4, R. C. Fox (Prof, Ent & Zool) was elected Chairman of the Committee and J. W. Gordon Gourlay (Dir), Secretary.

MATHEMATICS

J. V. Brawley, Jr. (Assoc Prof) and Andrew Sobczyk (Prof) attended the meeting of the American Mathematical Society in Madison, Wis., August 26-31, and presented papers, entitled (respectively) "Certain Sets of Involutory Matrices and Their Groups" and "Isometries of Normed Linear Spaces."

PHYSICS

John R. Ray (Asst Prof) received a National Science Foundation Postdoctoral stipend and travel allowance to attend the 11th Boulder Summer Institute in Theoretical Physics held at the University of Colorado, Boulder, Colo. from June 17-August 23. He also had published an article in the July 1, 1968 issue of Il Nuovo Cimento entitled "Covariant Noether Identities in Covariant Field Theories." He presented two talks as an invited lecturer at Auburn University on May 17. The titles of the lectures were: "Model Universes" and "Structure of the Universe."

E. P. Stillwell (Assoc Prof) presented a paper at an international conference on Electron Mean Free Paths in Metals held at Zurich, Switzerland, September 3-5. The title of the paper was "Measurement of the Electron Mean Free Path Using a Bending Technique" and was co-authored by M. J. Skove (Assoc Prof), W. E. Gettys (Assoc Prof), and D. R. Overcash (graduate student, Phys). While in Europe, Dr. Stillwell also attended the 11th International Conference on Low Temperature Physics held at St. Andrews, Scotland, August 21-28.

SCHOLARSHIP OPPORTUNITIES FOR GRADUATE STUDY IN EASTERN EUROPE, 1969-1970

Opportunities for graduate study in certain areas are available in Poland, Romania, and Yugoslavia for students who are qualified and interested. Further information may be obtained from Dean F. I. Brownley of the Graduate Office, who is Fulbright Adviser for Clemson University.

FIESTA MEXICANA OPENS 1968-1969 CONCERT SERIES

FIESTA MEXICANA will be celebrated at the Clemson Field House at 8:00 p.m. on October 7, as the Clemson University Concert Series opens its 1968-1969 season. This company of dancers, singers and musicians presents a beautiful panorama of Mexico, the old and the new. The dances and rituals of pre-Hispanic Mayan and Aztec cultures combine with the dances and music of Spanish influence. Richly colorful costumes, the novel sounds of ancient instruments, and the modern mariachi orchestra make FIESTA MEXICANA opulent to the eye and delightful to the ear.

Individual tickets are available at the door for \$3.00. Season tickets are still available from the Band Department or by mail (Box 2325). Adult tickets are \$10.00; student tickets are \$5.00.

"GERMAN MEDIEVAL SCULPTURE" OPENS IN LEE GALLERY

On exhibition in the Rudolph Lee Gallery from September 26 to October 16 is German Medieval Sculpture. Beginning with an 8th century ivory head of Christ and continuing through the great 13th century monuments of Bamberg and Magdeburg to the late Gothic Madonnas and portraits located in Cologne, Bonn and Strassburg, the exhibition dramatizes the medieval character. Revealing the hidden power and character of German medieval sculpture in examples seldom seen by the public, the photographs, lent by Syracuse University, New York, were taken by Dr. Harald Busch of Frankfurt am Main.

NATIONAL INSTITUTES OF HEALTH FELLOWSHIP PROGRAMS

Information about the National Institutes of Health Fellowship Programs is available in the Graduate Office. Included are Predoctoral, Postdoctoral and Special Research Fellowships.

ALUMNI NATIONAL COUNCIL, FOUNDATION TRUSTEES MEET OCT. 11

Members of the Alumni National Council and the Clemson Foundation Trustees will hold their annual Fall business meetings at the Clemson House on Friday, Oct. 11. Mr. Harper S. Gault of Rock Hill is president of the Alumni Association and Mr. Patrick N. Calhoun of Charlotte, N. C., is president of the Foundation.

The Alumni National Council will be in session at 9:30 a.m., the Foundation Trustees at 2:30 p.m. A luncheon for the two groups will be held in the Gold Room at 12:30 p.m., while their wives dine in the Blue Room at the same hour.

On Saturday, Oct. 12, Mr. Gault will crown the Homecoming Queen during halftime ceremonies of the Auburn-Clemson football game.

CALENDAR OF CAMPUS EVENTS

Oct.	1	Tu	6:30 p.m.	Sage Club, C. A. Sidden, Superintendent of Pickens County Schools will speak, Clemson House
Oct.	3	Th	4:00 p.m.	Seminar in Room C-127, P&AS Bldg., by Dr. D. R. Lamond "Monitoring Ovarian Function."
Oct.	3	Th	4:00 p.m.	Textile Seminar - Dr. J. L. Lundberg, "Light Scattering from Cylinders, Including Textile Fibers." 301 Sirrine Hall
Oct.	3	Th	7:30 p.m.	Religion Lecture - "An Early American View of Religion: The Contribution of Roger Williams," by Dr. Edwin S. Gaustad, Chairman, Department of History, of the University of California at Riverside. Tillman Hall Auditorium
Oct.	3	Th	8:00 p.m.	Graduate Wives Meeting, YMCA, Dr. C. W. Bolen speaker
Oct.	3	Th		Seminar - Botany & Bacteriology - 220 Long Hall "Structure and Function of Bacterial Cell Membranes," Miss Sharon Brown
Oct.	4	F	8:00 a.m.	Dental Aptitude Test, Room 20, Tillman Hall
Oct.	4	F	3:00 p.m.	Freshman Football - University of Georgia at Athens, Ga.
Oct.	5	Sat	2:00 p.m.	Soccer, University of Maryland
Oct.	5	Sat	2:00 p.m.	Football - Georgia Tech at Atlanta, Ga.
Oct.	7-27	M-Sun		International Trends In Printmaking - Rudolph Lee Gallery - Lee Hall
Oct.	7	M	9:00 a.m.	Educational Council Meeting
Oct.	7	M	8:00 p.m.	Concert - Fiesta Mexicana - Fike Field House
Oct.	8	Tu	4:15 p.m.	Faculty Senate Meeting, Olin Hall Auditorium
Oct.	9	W	3:00 p.m.	Soccer, Duke at Duke University
Oct.	10	Th	4:00 p.m.	Seminar in Room C-127, P&AS Bldg., by Dr. D. R. Lamond "Monitoring Ovarian Function" continued

Oct.	10	Th	4:00 p.m.	Textile Seminar - Dr. H. D. Keith, Bell Telephone Labs, Inc., "Intercrystalline Links in Polyethylene." 301 Sirrine Hall
Oct.	10	Th	7:30 p.m.	Freshman Football, USC at Columbia, S. C.
Oct.	10	Th		Seminar - Botany & Bacteriology - 220 Long Hall "Protoplasts, Spheroplasts, and L-Forms." Mr. L. J. Forrester
Oct.	11	F	6:45 p.m.	Tigerama - Stadium
Oct.	11-12	F-Sat		Homecoming Dances - Dining Hall (Harcombe Commons)
Oct.	12	Sat	10:30 a.m.	Soccer, University of Jacksonville (Homecoming)
Oct.	12	Sat	11:00 a.m.	Junior Class Bar-B-Que and Block and Bridle Bar-B-Que - Field House
Oct.	12	Sat	1:30 p.m.	Football - Auburn at Clemson
Oct.	12	Sat		Homecoming (Classes Suspended)
Oct.	13	Sun	2:00 p.m.- 4:00 p.m.	CDA Concert - Fike Field House
Oct.	14-16	M-W		Cer. Engr. Plant Operators Forum - Clemson House
Oct.	15	Tu	12:00 noon- 1:30 p.m.	Women of Teaching Faculty Luncheon, Clemson House
Oct.	15	Tu	3:00 p.m.	Soccer, UNC at Clemson
Oct.	15	Tu	4:00 p.m.	Research Faculty Council
Oct.	15	Tu	4:00 p.m.	Biochemistry Seminar - Speaker is Dr. Harry D. Peck, Head of Department of Biochemistry at University of Georgia, "The Role of a Biochemistry Curriculum in the University." Room 101, P&AS Bldg.
Oct.	16	W	8:00 a.m.	Architectural School Aptitude Test, Room 20, Tillman Hall
Oct.	16-19	W-Sat		Clemson Players' Production
Oct.	17	Th		Seminar - Botany & Bacteriology - 220 Long Hall, "Soil Mycostasis," Dr. G. C. Kingsland
Oct.	18	F	3:00 p.m.	Freshman Football - Duke at Clemson
Oct.	19	Sat	1:30 p.m.	Football - Duke at Clemson (Band Day)



CLEMSON

NEWSLETTER

INFORMATION FOR THE STAFF OF CLEMSON UNIVERSITY

Vol. 8 No. 5

CLEMSON UNIVERSITY LIBRARY
SOUTH CAROLINA ROOM

October 15, 1968

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MATHEMATICS COLLOQUIA

OCT 23 1968

The Department of Mathematics announces a new series of research colloquia on mathematical models and methods in the Decision Sciences, a field which encompasses the broad areas of probability theory and models, mathematical statistics, operations research, computer science, and mathematical models in economics and the behavioral sciences.

The format for the colloquium series will be as flexible as the topical areas are diverse. They will range from formal presentation of completed research through survey papers on state-of-the-art of important emerging techniques to discussion of partially completed research and half-baked ideas in a workshop-type atmosphere. Speakers will range from well-known scholars to graduate students.

The colloquium will normally meet on Wednesday afternoons at 4:00 p.m. in Room 1, Physics Building, with exceptions made to accommodate special guest speakers whose availability would prohibit a Wednesday meeting.

Communications concerning the colloquium series should be directed to Dr. K. T. Wallenius, Department of Mathematics. Following is the schedule for the fall semester:

DECISION SCIENCES COLLOQUIUM

OCTOBER 9 (WEDNESDAY)

Professor Lincoln Moses
Chairman, Department of Statistics
Stanford University
and

L. L. Thurstone Distinguished Fellow, 1968-69
The University of North Carolina, Chapel Hill

Topic: Identifying Adverse Drug Effects from Copious
Clinical Records.

MATHEMATICS COLLOQUIA (Continued)

OCTOBER 15 (TUESDAY)

Professor Gerald Lieberman
Chairman, Department of Operations Research
Stanford University

Topic: Operations Research at Stanford.

OCTOBER 17 (THURSDAY)

Professor M. J. Sobel
Yale University

Topic: Mathematical Programming Problems in Water
Resources Models.

OCTOBER 23 (WEDNESDAY)

Tseng C. Chang
Purdue University

Topic: Asymptotic Expansions of Distributions of
Characteristic Roots.

OCTOBER 30 (WEDNESDAY)

Professor Gordon Simons
Department of Statistics
University of North Carolina, Chapel Hill

Topic: Sequential Fixed-width Confidence Intervals.

NOVEMBER 7 (THURSDAY)

Professor F. Leysieffer
Department of Statistics
Florida State University

Topic: A System of Markov Chains with Random Lifetimes.

MATHEMATICS COLLOQUIA (Continued)

NOVEMBER 13-15 (WEDNESDAY, THURSDAY, FRIDAY)

Dr. Ellis L. Johnson
Watson Research Center
IBM
Yorktown Heights, N. Y.

Topics: November 13: Markov Programming
November 14: Optimal Reset Policies
November 15: (To be announced)

NOVEMBER 20 (WEDNESDAY)

Professor Miles Hollander
Department of Statistics
Florida State University

Topic: Nonparametric Problems in Regression Analysis.

NOVEMBER 27 (WEDNESDAY)

Professor S. E. Elmaghraby
Chairman, Joint Committee on Operations Research
North Carolina Universities, Chapel Hill/Raleigh

Topic: Optimal Sequencing of Related Jobs.

DECEMBER 4 (WEDNESDAY)

Professor K. T. Wallenius
Department of Mathematics
Clemson University

Topic: Coherency Principles in Decision Making.

Meetings will be held in Room 1, Physics Building, at 4 p.m. preceded by tea in the mathematics lounge at 3:30 p.m.

ADMINISTRATION

F. I. Brownley, Jr. (Dean, Grad Sch) attended a meeting of the Civilian Advisory Committee of the Army Command and General Staff College at Fort Leavenworth, Kansas, on September 24-26.

Linvil G. Rich (Dean, Engr), Thurman C. Hardin (Hd, ME), and Lyle C. Wilcox (Hd, EE) attended the 36th Annual Meeting of the Engineer's Council for Professional Development in New Orleans on September 30 and October 1.

AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

Paul S. Williamon (Assoc Ext Spec) participated in a national meeting held in Washington, D. C. on September 19 and 20 to consider the feasibility of establishing a consortium concerning the application of computer science to agriculture.

BOTANY AND BACTERIOLOGY

M. J. B. Paynter (Asst Prof) presented a paper, "Dynamics of Coliphage Infections in Continuous Culture," at a focal topic session of the 3rd International Fermentation symposium held at Rutgers, the State University, New Jersey, September 2-6. Co-author of the paper was H. R. Bungay III (Prof, ESE).

ENGINEERING MECHANICS

A. G. Law (Assoc Prof), R. W. Moorman (Hd), and P. B. Zielinski (Asst Prof) attended the Governor's Second Annual Conference on Water Resources held in Greenville on September 24 and 25.

M. K. Richardson (Assoc Prof) and H. B. Wilson, Jr. of the University of Alabama have had a paper entitled "A Numerical Method for the Conformal Mapping of Finite Doubly Connected Regions" published by Pergamon Press in DEVELOPMENTS IN THEORETICAL AND APPLIED MECHANICS, VOLUME 3.

ENVIRONMENTAL SYSTEMS ENGINEERING

John F. Andrews (Hd) presented a lecture "Advanced Waste Treatment" at a technical training course conducted by the Federal Water Pollution Control Administration at the Southeast Water Research Laboratory, Athens, Georgia, on September 27.

Kawi Kambhu (Ph.D. Candidate) and John F. Andrews (Hd) were co-authors of a paper "Aerobic Thermophilic Digestion for Biological Waste Treatment - Simulation Studies" presented at the 41st National Water Pollution Control Federation Meeting, Chicago, Illinois, September 23.

ENVIRONMENTAL SYSTEMS ENGINEERING (Continued)

W. M. McLellon (Assoc Prof) and Jon C. Dyer (Assoc Dir, Cont Ed) attended a meeting of the Planning Committee, National Conference on Wastewater Treatment Plant Operator Training, Chicago, Illinois, on September 24. Dr. McLellon is serving as General Chairman of the Conference and the Planning Committee. Mr. Dyer is Secretary of the Planning Committee and Local Arrangements Chairman for the Conference.

INDUSTRIAL EDUCATION

J. Page Crouch (Asst Prof) spoke at the South Carolina Industrial Arts Education Association held at Belton, South Carolina, September 21 on "An Appraisal of the 1967 NDEA Institutes for Advanced Study in Industrial Arts."

INDUSTRIAL MANAGEMENT

Susan Brown (Asst Prof) worked this summer with the South Carolina Regional Medical Program in Charleston as a Project Coordinator to survey the emergency medical facilities throughout the state. In conjunction with this project, she attended a meeting of the State Trauma Committee in Columbia on September 21.

Steve LaRoche (Assoc Prof) was chosen for listing in the latest edition of Who's Who in the South and Southwest United States, a sectional publication of Who's Who in America.

C. O. Shuler (Assoc Prof) in conjunction with two graduate assistants has directed a research project entitled A Study of the Production Familiarization Programs for College Graduates in the South Carolina Segment of the Textile Industry for the Sirrine Foundation. This publication was mailed from Clemson on October 1. Also during this past summer, he worked on A Planning Study for the South Carolina Regional Medical Program at Greenville Hospital System. The purpose of the study was to inventory and catalogue the medical and paramedical educational capabilities of the area and to relate these resources to the training needs in these fields.

Clinton H. Whitehurst (Hd) recently announced expansion of the basic marketing curriculum in the School of Industrial Management. In the spring semester 1968-69, students planning to enter business in the areas of advertising, marketing research and market administration will be able to take a minor in marketing. This new course and the marketing section will be headed by T. H. Gunter (Asst Prof).

INTERDISCIPLINARY STUDIES IN ENGINEERING

The Division of Interdisciplinary Studies (College of Engineering) has received a \$5,400 graduate fellowship from the Kaiser Aluminum and Chemical Corporation.

INTERDISCIPLINARY STUDIES IN ENGINEERING (Continued)

S. F. Hulbert (Hd) has received a grant of \$24,804 from National Institute of Arthritis and Metabolic Diseases to continue work on the kinetics of corrosion of prosthetic materials in physiological fluids.

S. F. Hulbert (Hd), J. J. Klawitter (graduate student, BioE), C. D. Talbert (graduate student, CerE), and C. T. Fitts, (Asst Prof of Surgery, Department of Surgery, Medical College of South Carolina, Charleston, South Carolina) presented a paper entitled "Material of Construction for Artificial Bone Segments" at the Fall Meeting of the Metallurgical Society, Detroit, Michigan, October 14.

F. A. Young (Asst Prof) presented a paper entitled "The Tensile Failure of Dental Amalgam" at the Fall Meeting of the Metallurgical Society, Detroit, Michigan, October 14. He also has an article entitled, "Influence of Acid Treated Ag₃Sn on the tensile strength and fracture of dental amalgam," in the current issue of the Journal of Biomedical Materials Research.

LIBRARY

Miss Genevieve L. Reidy has joined the library staff as Reference Librarian, Science Technology and Agriculture Division.

Miss Reidy received her Bachelor of Science degree in Business Administration from Syracuse University with a minor in Forest Administration, has completed course work for the Master of Business Administration, and holds the Master of Science degree in Library Science from Syracuse University. Her experience includes that of Technical Librarian, St. Regis Paper Company, Technical Division, Deferiet, New York, and Technical Librarian, Deering Milliken Research Corporation, Spartanburg, South Carolina.

PHYSICS

Robert L. Chaplin (Assoc Prof) is the senior author of an article published in the September 9, 1968 issue of Physics Letters. The title of the article is "Low Temperature Recovery of 0.4 MeV Electron Irradiated Aluminum" and the following physics graduate students are listed as co-authors: H. M. Simpson, T. N. O'Neal, A. B. Pruitt, and W. E. Faust.

RESEARCH COORDINATING UNIT

H. F. Landrith (Dean, Ed), J. H. Rodgers (Prof), L. H. Davis (Prof), A. K. Jensen (Assoc Prof), E. T. Carpenter (Assoc Prof), and R. H. White (Assoc Prof) recently attended the RCU Board of Directors Meeting in Columbia.

John Rodgers (Prof) and Earl Carpenter (Assoc Prof) attended a national planning meeting at Ohio State University September 25-26 to coordinate plans for research review publications in Vocational Education. Rodgers was previously Professor and Head of Agricultural Education at VPI before joining Clemson as Director of the RCU.

RESEARCH COORDINATING UNIT (Continued)

R. H. White (Assoc Prof) participated in a regional meeting in Knoxville September 26-27 to plan an effective selective dissemination system for vocational education research information.

TEXTILE SCIENCE

During the week of September 7-13, R. H. Barker (Prof), J. L. Lundberg (Assoc Prof), and F. T. Simon (Prof) attended the 156th meeting of the American Chemical Society. Dr. Lundberg presented an invited paper on "Clustering Theory" as a part of a symposium on Water Transport in Polymers. Professor Simon presented an invited paper on "Coloration in Vinyl Fabrics" in the symposium on Industrial Color and Control. On Sunday and Tuesday of the week, Dr. Lundberg participated as Secretary of the Council Committee on Chemical Education.

J. J. Porter (Assoc Prof) has been appointed as a consultant to the Federal Water Pollution Control Administration, a division of the U. S. Department of Interior.

Frederick T. Simon (J. E. Sirrine Visiting Prof) presented an address to the Dry Color Manufacturers Association at the Princeton Club in New York City on October 9 on the "Coloration of Vinyl Fabrics."

COUNSELING CENTER

Dr. Virginia S. Hardie (Dir) made recent addresses at the South Carolina Collegiate Press Association meeting at Clemson and the South Carolina Personnel and Guidance Convention at Myrtle Beach. She also made the keynote address for Freshman Orientation at Presbyterian College.

BLUE CROSS OPENS ANNUAL RE-ENROLLMENT PERIOD

Representatives of Blue Cross-Blue Shield Insurance will be on campus September 25 through October 25, 1968. This is the annual re-enrollment period for group insurance available to all faculty members and other regular employees of Clemson University.

During this re-enrollment period any member of the Blue Cross-Blue Shield program may make changes (additions, deletions, etc.) if desired to fit individual and/or family needs. Initial applications will also be accepted during this period for those who desire insurance coverage through this plan.

New employees may apply for insurance any time during their first thirty-one days of employment. Other employees may apply for insurance or request changes in present coverage only during the annual re-enrollment period September 25 through October 25. Employees presently enrolled and desiring no changes will be automatically continued and need not contact the representatives at this time.

Appointments may be made with the representatives by telephoning Mr. W. J. Stamey in the Personnel Office, Ext. 365.

GIFTS AND GRANTS

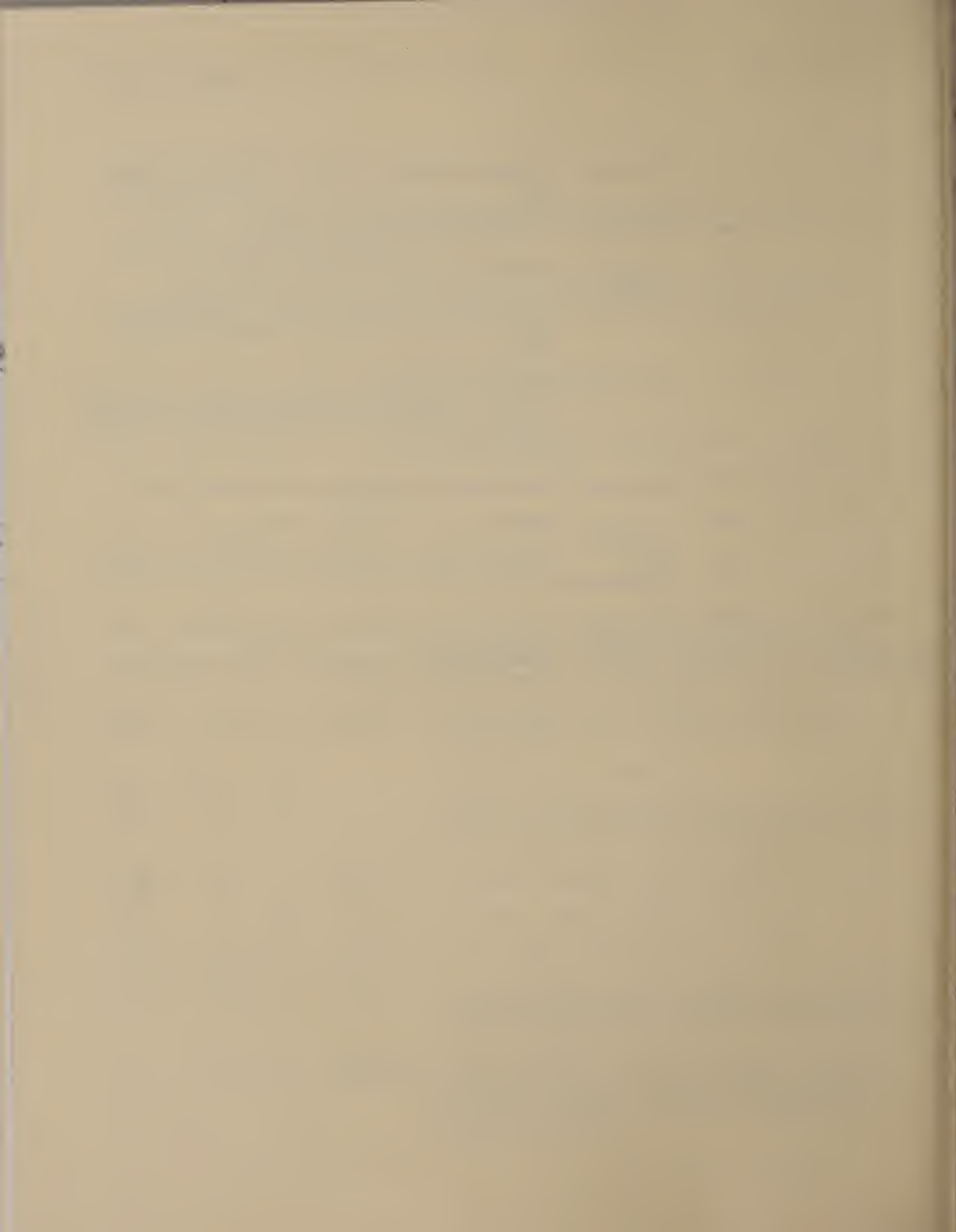
Monsanto Company, \$1,000 renewal grants to the Departments of Textiles and Chemical Engineering, for undergraduate scholarships and grants-in-aid for the respective departments.

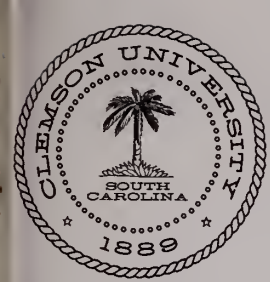
Owens-Corning Fiberglas, \$1,500 for two \$500 scholarships for upperclassmen majoring in engineering for textiles, and a \$500 unrestricted gift for academic purposes.

CALENDAR OF CAMPUS EVENTS

Oct.	14-16	M-W		Cer. Engr. Plant Operators Forum - Clemson House
Oct.	15	Tu	12:00 noon-1:30 p.m.	Women of Teaching Faculty Luncheon, Clemson House
Oct.	15	Tu	3:00 p.m.	Soccer, UNC at Clemson
Oct.	15	Tu	4:00 p.m.	Research Faculty Council
Oct.	15	Tu	4:00 p.m.	Biochemistry Seminar - Speaker is Dr. Harry D. Peck, Head of Department of Biochemistry at University of Georgia, "The Role of a Biochemistry Curriculum in the University." Room 101, P&AS Bldg.
Oct.	16	W	8:00 a.m.	Architectural School Aptitude Test, Room 20, Tillman Hall
Oct.	16-19	W-Sat		Clemson Players' Production
Oct.	17	Th		Seminar - Botany & Bacteriology - 220 Long Hall, "Soil Mycostasis," Dr. G. C. Kingsland
Oct.	18	F	3:00 p.m.	Freshman Football - Duke at Clemson
Oct.	19	Sat	1:30 p.m.	Football - Duke at Clemson (Band Day)
Oct.	22	Tu	2:00 p.m.	Soccer, Univ. of Va. at Univ. of Va.
Oct.	24	Th	4:00 p.m.	Textile Seminar - Mr. J. E. Hindrix, "An Investigation of the Nitrogen-Phosphorous Synergism in Flame Retardants for Cellulose." 301 Sirrine Hall
Oct.	24	Th	4:00 p.m.	Physics Seminar - Dr. D. K. Holmes, Oak Ridge National Laboratory, "Results Concerning Point Defects of Metals." Room 101, Physics Bldg. (Kinard Laboratory)

Oct.	25	F	8:00 p.m.	Freshman Football - Georgia Tech. at Savannah, Ga.
Oct.	26	Sat	10:30 a.m.	Soccer - Citadel at the Citadel
Oct.	26	Sat	1:15 p.m. (CST)	Football - Alabama at Tuscaloosa, Ala.
Oct.	26	Sat.		Graduate Record Examination, Room 20, Tillman Hall
Oct.	28	M	7:00 p.m.	Foreign Film Series - French - Amelie, ou le temps d'aimer. From the novel <u>Amelie Boule</u> by Michele Angot. Berlin Film Festival, 1961. CE Auditorium, admission is free.
Oct.	30	W	8:00 p.m.	CDA Junior Class Concert - Fike Field House
Nov.	2	Sat	1:30 p.m.	Football - N. C. State at Raleigh, N. C.
Nov.	2	Sat	1:30 - 3:30 p.m.	Foreign Language Exams, Room E-208, Martin Bldg.
Nov.	2	Sat	2:30 p.m.	Soccer - Warren Wilson at Warren Wilson
Nov.	2	Sat		Admission Test for Graduate Study in Business, Room 20, Tillman Hall





CLEMSON

NEWSLETTER

INFORMATION FOR THE STAFF OF CLEMSON UNIVERSITY

Vol. 8 No. 6

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November 1, 1968

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ENGINEERING FACULTY AWARD ANNOUNCED

The Clemson Engineering Foundation has established an Annual Dean's Engineering Faculty Award for Innovations in Effective Teaching.

In a continuing effort to upgrade engineering teaching, and in recognition of the critical need that exists for new ideas in teaching, the Clemson Engineering Foundation has established a \$100 cash award to be presented annually to the engineering faculty person who demonstrates by accomplishment the best idea for increasing the effectiveness of engineering teaching.

Presentation of this award to be made at the annual College of Engineering Honors and Awards Program.

SUMMARY OF THE MINUTES OF THE FACULTY SENATE, SEPTEMBER 10, 1968

The Senate voted to withdraw the proposal that the immediate Past President of the Faculty Senate attend meetings of the Educational Council. After considerable discussion of a proposal made by the Student Senate, the Faculty Senate passed a motion for the establishment of a committee to be concerned with problems of mutual interest and to maintain lines of communication between the Faculty Senate and the Student Senate.

The Senate voted to recommend to the appropriate authority the inclusion of a member of the traffic engineering staff within the Department of Civil Engineering in the University long-range planning committee for buildings and grounds.

The Chairman of the Committee on Policy reported on the following items under study: the formation of a University long-range planning committee, the resolution concerning the scope and purpose of Faculty Senate activities, better means of communication between the Senate and the various Schools and Colleges, problems anticipated by the division of the College of Arts and Sciences, the representation of the School of Nursing on the Senate, the proposed merger of the Faculty Senate and the Research Faculty Council, and the status of a teacher evaluation system proposed last year.

A committee, consisting of D. L. Handlin, J. L. Idol, Jr., J. K. Reed, and J. F. Pearce, Chairman, was appointed to study the advantages and disadvantages of the quarter system and other methods of operation.

Pending the gathering of additional information or further study in committees, no action was taken on the following issues: the continuing enrollment requirement as stated in the Graduate School catalog, action which might be required by the Senate in regard to the faculty evaluation proposal, and the Student Senate proposal for revised class attendance regulations.

SUMMARY OF THE MINUTES OF THE FACULTY SENATE, OCTOBER 10, 1968

President Eugene Park reported that the formation of a University long-range planning committee to advise in academic affairs has been approved by the Administration. He was to review the composition of the committee with the Dean of the University on October 9. He announced that a policy relating to those faculty members engaged in directing programs of graduate students during the summer is being considered by the Graduate Council. The statement of policy concerning Clemson study programs abroad, as amended by the Faculty Senate, has been accepted by the Dean of the University and submitted to the Educational Council. The recommendation that a representative from the Department of Civil Engineering be added to the University Parking Committee has been sent to the Dean of the University.

There was no report from the Admissions and Scholarship Committee, but J. K. Reed, Chairman, indicated that the committee would have under consideration such items as Saturday classes and the faculty evaluation proposal. President Park added that impending items might include the initiation of a pass-fail grading system on certain courses selected outside of a student's major field, the possibility that the traditional minor be replaced by a cluster of courses in related subjects, a revised class attendance bill, and a change in the present system for the removal of the grade of F by retaking the course.

D. W. Lyons, Chairman of the Welfare Committee, announced that the committee was planning to make a study of fringe benefits at Clemson as compared with other institutions and, in connection with this, to seek the improvement of recreational facilities available to the faculty.

J. F. Pearce, Chairman of the Committee to Study Advantages and Disadvantages of the Quarter System and Other Methods of Operations, reported on the activities of the committee. After mentioning specific problems to be found in connection with the operation of the University on the present calendar and outlining the results of a study made in this respect by an agency in Texas, he recommended that a copy of the advantages and disadvantages of the semester and quarter systems of operation be sent to each member of the Faculty Senate for his study. The committee plans to poll the Senate at the next meeting in order to determine the general consensus before further investigation is undertaken.

The proposed Liaison Committee, consisting of representatives from the Faculty Senate, the Student Senate, and the Administration, has been accepted by the Administration. It is expected that the members of the committee will be appointed shortly. It is to include the President of the Faculty Senate and two others appointed by him, the President of the Student Senate and two others appointed by him, and three members from the Administration, representing Student Affairs, Development, and Academic Affairs. The committee, which is to meet twice monthly, is not to be a decision-making group, but each member will report back to the organization he represents. A. W. Rigsby, Assistant to the President, will be a non-voting member and serve as Secretary.

SUMMARY OF THE MINUTES OF THE FACULTY SENATE, OCTOBER 10, 1968 Continued

Several items were presented to be transmitted to the Senate representative on the University Parking Committee. These included: (1) a combination zone parking decal to be used by husband and wife faculty members who are employed in different areas of the campus, (2) the granting of faculty parking privileges in zones designated for students when faculty space is unavailable, and (3) the granting of general parking permits to be issued by the individual departments to persons involved in official business in other areas of the campus.

AMERICAN MATHEMATICAL SOCIETY TO MEET AT CLEMSON

The Southeastern Section of the American Mathematical Society will hold its annual meeting in Clemson on November 8 and 9 with the Department of Mathematics acting as host. It is anticipated that approximately 400 mathematicians from throughout the entire region will attend. In addition to the 54 contributed papers, there will be 3 one-hour addresses by men distinguished for research in their field. These invited speakers and the hour and place for the addresses are as follows:

Friday - 1:15 p.m., Chemistry Auditorium
Professor C. H. Edwards, Jr., University of Georgia

Friday - 4:15 p.m., Chemistry Auditorium
Professor Laszle Fuchs, Tulane University

Saturday - 9:00 a.m., Chemistry Auditorium
Professor Malcolm S. Robertson, University of Delaware

All meetings are open to faculty and staff members from other departments.

"FOUNTAINS" OPENS IN LEE GALLERY

On exhibition in the Rudolph Lee Gallery from November 4 to November 23 is Fountains. Man has always had a fascination for the beauty of water, thus, architects have designed fountains to contain and to control water. A fountain is principally a sculpture, consisting of a base, basin, and the pattern made by its spraying water. Fountains fall into two major categories: those designed as sculpture and those conceived as an extension of the building's design. Minor L. Bishop selected 50 fountains--many shown in their architectural setting--to survey the fountain in contemporary architecture.

"VACATION HOMES" OPENS IN LEE GALLERY

On exhibition in the Rudolph Lee Gallery from November 4 to November 23 is Vacation Homes. The testing ground for originality in architectural forms and spaces has best been served by the vacation house. Some of the youngest architects have been engaged in this form of building which permits the use of the simplest materials, yet allows the greatest freedom of creativity. In this exhibition for the New York Chapter of the American Institute of Architects, homes for the beach and ski slope designed by such firms as Edward L. Barnes, Hobart Betts, Charles Gwathney, Hugh Jacobson and Charles Moore have been selected by the Exhibits Committee, headed by Minor L. Bishop, as some of the best examples of new trends.

ADMINISTRATION

Victor Hurst (Dean of the University) has been named as a member of the Auditing Committee of the Conference of Academic Deans of the Southern States. This group meets in conjunction with the annual meeting of the Southern Association of Colleges and Schools. The meeting will be held this year, December 1-3, in Atlanta and will be attended by Dean Hurst, Dean Green, and Dr. J. G. Dinwiddie, Jr. (Ch).

CHEMICAL ENGINEERING

The Department of Chemical Engineering, College of Engineering, will conduct a seminar on "Estimation of Thermodynamic Properties of Fluids" at Earle Hall on Monday, November 4. Presenting portions of the program will be Dr. J. C. Mullins, Dr. R. C. Harshman, and Dr. W. F. Beckwith from Clemson University and Dr. David Zudkevitch from Esso Research and Engineering Company, Florham Park, New Jersey. At the luncheon meeting of the seminar, Dr. C. W. Bolen, Professor of History, Clemson University, will speak on "Humphrey, Nixon, Wallace: THE DILEMMA."

Advance registration for the seminar is handled through the Office of Industrial and Municipal Relations, College of Engineering.

F. C. Alley (Assoc Prof) attended the Fall meeting of the South Atlantic Section, Air Pollution Control Association, at Virginia Beach, Virginia, on October 1, of which he is the Secretary.

W. B. Barlage (Assoc Prof) and K. H. Mancy (University of Michigan) had an article, "Mechanism of Interference of Surface-Active Agents with Gas Transfer in Aeration Systems," published in Advances in Water Quality Improvement, University of Texas Press, 1968.

ELECTRICAL ENGINEERING

B. E. Gilliland (Asst Prof) conducted a course entitled, "Introduction To Analog Computers" in Huntsville, Alabama, during the period September 30 to October 4. The course was sponsored by the Southeastern Sections of IEEE and Simulation Councils, Inc.

ENGLISH AND MODERN LANGUAGES

Pedro Parrado (Instr) has been elected Vice President of the South Carolina Section of the American Association of Teachers of Spanish and Portuguese.

GRADUATE SCHOOL

The Graduate Council has recently changed the grading system for the thesis and dissertation. Currently letter grades are awarded for this work, just as in a course, but for students entering after January 1, 1969, grades of Pass - Fail - Incomplete will be assigned.

Dr. Patricia Wannamaker is conducting an investigation of problems concerning the Graduate School Foreign Language Reading Requirement.

Objectives of the study are:

- (1) To ascertain whether there is any significant difference in results obtained in testing graduate students for a foreign language reading knowledge by means of a translation with dictionary type test or a standardized test.
- (2) To compare the achievement of graduate students who successfully meet the reading knowledge requirement with the achievement of undergraduate students at the first and second year levels.
- (3) To compare scores made on the ETS Achievement/Placement Tests with scores made on the GSFL Tests in order to establish the approximate level of difficulty of the graduate tests.
- (4) To collect preliminary data for a subsequent development of standardized tests in certain specific fields (e.g. chemistry, mathematics, psychology, etc.).

Information on the graduate and post doctoral fellowships administered by the National Research Council for NSF is available in the Graduate Office.

MECHANICAL ENGINEERING

D. W. Bradbury (Prof) attended the Tenth International Mechanism Conference as an invited discussant on October 8 and 9.

C. A. Brandon (Assoc Prof) attended the semi-annual information meeting for "Gas Cooled and Molten Salt Reactor Programs" at the Oak Ridge National Laboratory, Oak Ridge, Tennessee, October 16-19.

J. A. Chisman (Assoc Prof) and Kingsley E. Forry (Instr) attended the Computer Simulation Symposium sponsored by the Institute of Management Sciences, October 13-16 in Durham, North Carolina

COUNSELING CENTER

Dr. Virginia S. Hardie (Dir) has been elected a member of the Board of Trustees of Presbyterian College in Clinton.

DATE SET FOR 1969 BOARD OF VISITORS

The Board of Visitors will conduct its 1969 visitation to the campus on March 12, 13, and 14.

PEST CONTROL OPERATORS' SCHOOL SET NOVEMBER 19, 20

Dr. J. H. Cochran (Head/Entomology & Zoology) announces the 12th Annual Pest Control Operators' School, sponsored by the Department of Entomology & Zoology, will be held Nov. 19-20. The Clemson House will be headquarters for the meeting.

The S. C. Pest Control Association will conduct its annual dinner-business meeting on Nov. 19 at 7 p.m. Election of officers will be an important item of business.

FOREIGN NATIONALS ON THE FACULTY AND STAFF OF CLEMSON UNIVERSITY

During the 1968-69 academic year, Clemson University has 23 foreign nationals on its faculty and staff. These persons are distributed among 20 disciplines and represent the following countries: West Germany, India, Cuba, Australia, Canada, Great Britain, Mexico, and Taiwan.

CALENDAR OF CAMPUS EVENTS

Nov.	2	Sat	1:30 p.m.	Football - N. C. State at Raleigh, N. C.
Nov.	2	Sat	1:30 p.m.- 3:30 p.m.	Foreign Language Exams, Room E-208, Martin Bldg.
Nov.	2	Sat	2:30 p.m.	Soccer - Warren Wilson at Warren Wilson
Nov.	2	Sat		Admission Test for Graduate Study in Business, Room 20, Tillman Hall
Nov.	4	M	4:00 p.m.	Agronomy 825 Graduate Seminar - Robert P. Gambrell, Agron. Grad. Student, "Soil Pollution by Wastes from Food Processing Plants, Room A203, Plant and Animal Science Building

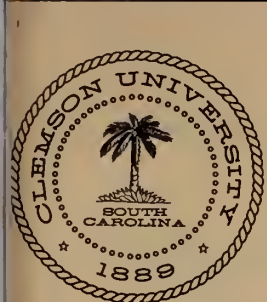
Nov.	4	M	9:00 a.m.	Educational Council Meeting
Nov.	4	M	7:00 p.m.	Foreign Film Series - French - The Seven Deadly Sins (Les sept peches capitaux). Rarely have so many distinguished talents been joined in the production of one film--seven leading French and Italian directors, top screenwriters, and a host of star performers--resulting in two hours of richly satisfying entertainment. CE Auditorium, admission is free.
Nov.	4-23	M-Sat		Fountains - Rudolph Lee Gallery - Lee Hall
Nov.	4-23	M-Sat		Vacation Homes - Rudolph Lee Gallery - Lee Hall
Nov.	5	Tu	3:00 p.m.	Soccer - Erskine at Erskine
Nov.	5	Tu	6:30 p.m.	Sage Club, Clemson House
Nov.	7-9	Th-Sat		Clemson Little Theatre Production
Nov.	7	Th	4:00 p.m.	Seminar in Room C-127, P&AS, by Dr. D. R. Lamond, "Synchronization of Estrus."
Nov.	7	Th	4:00 p.m.	Botany and Bacteriology Seminar - Mr. W. S. Brewer, "Host Controlled Modification of Bacteriophage," 222 Long Hall
Nov.	7	Th	4:00 p.m.	Chemistry Seminar - Dr. O. D. Bonner, Professor and Head of the Department of Chemistry at the University of South Carolina, "Spectroscopic Evidence for Water Structure and Solute-Solvent Interactions." Room 131, Brackett Hall
Nov.	7	Th	4:00 p.m.	Decision Sciences Colloquium, in Physics #1, Professor F. Leysieffer, Dept. of Statistics, Florida State University
Nov.	7	Th	7:30 p.m.	Dr. Foster Tait of the Philosophy Department of the University of South Carolina will lecture on "Some Problems in the Logic of Hypothesis Testing and Confirmation." Chemistry Auditorium
Nov.	7	Th	8:00 p.m.	Graduate Wives Meeting, YMCA, Guest speaker is Mrs. Robert F. Poole
Nov.	8-9	F-Sat		Annual meeting of the Southeastern Section of the American Mathematical Society.

Nov.	9	Sat	1:30 p.m.	Football - University of Maryland at College Park, Maryland
Nov.	9	Sat	2:00 p.m.	Soccer - N. C. State
Nov.	11	M	4:00 p.m.	Agronomy 825 Graduate Seminar - James H. McDonald, Agron. Grad. Student, "Secondary Effects of Pesticides," Room A203, Plant and Animal Science Building
Nov.	11	M	7:00 p.m.	Foreign Film Series - Russian - The Duel. Based on the story by Anton Chekhov. CE Auditorium, admission is free.
Nov.	12	Tu	2:30 p.m.	Soccer - Belmont Abbey at Belmont Abbey
Nov.	12	Tu	4:15 p.m.	Faculty Senate Meeting, Olin Hall Auditorium
Nov.	12	Tu	7:30 p.m.	Religion Lecture - "A Changing God in a Changing World: A Study of Some Contemporary Radical Concepts of God." by Dr. Ralph E. James, Prof. of Philosophy and Religion, North Carolina Wesleyan College. Tillman Hall Auditorium
Nov.	13	W	8:00 p.m.	Shakespearean Play - "Othello" - Tillman Aud.
Nov.	13-15	W-F	4:00 p.m.	Decision Sciences Colloquium, in Physics #1, Dr. Ellis L. Johnson of the Watson Research Center, IBM, Yorktown, N. Y.
Nov.	14	Th		Textile Seminar - Dr. Joseph H. Dusenbury, Deering Milliken Research Lab., 301 Sirrine Hall
			2:00 p.m.	"Wool: Chemical Structure and Morphology."
			4:00 p.m.	"Wool: Chemical Treatments and Technology."
Nov.	14	Th	4:00 p.m.	Botany and Bacteriology Seminar - Dr. Harry Gooder, Prof. of Bacteriology, University of North Carolina-Chapel Hill, "Streptococcal L-Forms." Room 101, Physics
Nov.	14	Th	4:00 p.m.	Seminar - Dr. J. Ernest Flack, Prof. of Civil Engineering, University of Colorado; Visiting Prof. of Engineering Economic Planning, Water Resources Center, Georgia Tech: "Water Rights Transfers and Reallocation." Room 301, Physics Building. (Jointly sponsored by the Council on Hydrology and Council on Water Policies.)
Nov.	14	Th	4:00 p.m.	Physics Seminar - Dr. D. K. Holmes, Oak Ridge National Laboratory "Results Concerning Point Defects of Metals." Room 101, Physics Building (Kinard Laboratory)

Nov.	16	Sat	10:30 a.m.	Soccer - University of Chattanooga at Univ. of Chattanooga
Nov.	16	Sat	1:30 p.m.	Football - University of North Carolina at Clemson (IPTAY Day)
Nov.	18	M	4:00 p.m.	Agronomy 825 Graduate Seminar - Dr. F. I. Brownley, Jr., Dean, Graduate School, "The Responsibilities of the Graduate Student to the University, His Department and Major Professor," Room A203, Plant and Animal Science Building
Nov.	19	Tu	12:00 Noon-1:30 p.m.	Women of Teaching Faculty Luncheon, Clemson House
Nov.	19	Tu	4:00 p.m.	Research Faculty Council
Nov.	19	Tu	8:00 p.m.	Speaker René Wellek, Sterling Professor of Comparative Literature, Yale University, "Form and Meaning in Tolstoy's <u>War and Peace</u> ," in Civil Engineering Auditorium

COMMUNICATIONS CENTER ADDS STAFF WRITER

Mrs. Ann H. Price of Birmingham, Ala., has been appointed radio and television staff writer in the Communications Center. She is a former news director for radio station WSNW in Seneca, and is a 1968 graduate of Auburn University. Her husband, Samuel J. Price III, is a graduate student at Clemson.



CLEMSON NEWSLETTER

INFORMATION FOR THE STAFF OF CLEMSON UNIVERSITY

Vol. 8 No. 7 CLEMSON UNIVERSITY LIBRARY
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PRESIDENT'S ADVISORY COMMITTEE ON LONG-RANGE ACADEMIC PLANNING

Recently President Edwards appointed a committee on Long-Range Academic Planning. His letter of appointment states:

"In 1972 Clemson University must justify its basis for Institution accreditation by the Southern Association of Colleges and Schools for the next decade. Within the next few months we will become deeply involved in preparation of the information which will be incorporated in the Self-Study Report to be submitted to the Association prior to the visit of the Self-Study Visitation Team.

"In addition, it is equally important that we examine very carefully and very critically all of our program offerings in the academic area, with a view to developing recommendations for such changes, modifications, deletions and additions as may be appropriate.

"In order to facilitate the above, I am asking those faculty members listed below to serve as members of the President's Advisory Committee on Long-Range Academic Planning for the periods indicated. I would appreciate your advising me at your earliest convenience of your acceptance of this appointment.

	<u>Termination Date</u>
Professor William C. Bowen, Associate Professor of Agricultural Education	June 30, 1969
Dr. James H. Hobson, Professor of Chemistry	June 30, 1969
Dr. Marvin A. Owings, Alumni Professor of English	June 30, 1969
Dr. James M. Stepp, Alumni Professor of Agricultural Economics and Rural Sociology	June 30, 1969
Dr. James N. Thurston, Alumni Professor of Electrical Engineering	June 30, 1969
Dr. William B. Barlage, Jr., Associate Professor of Chemical Engineering	June 30, 1970
Dr. Muriel Boyd Bishop, Assistant Professor of Chemistry	June 30, 1970
Dr. Stanley M. Lukawecki, Associate Professor of Mathematics	June 30, 1970

FACULTY BASIC RESEARCH GRANTS

The Faculty Basic Research Committee at its meeting on Oct. 2 made the following grants:

Dr. R. W. Snelsire (EE), \$1250 for an investigation of the effects of ultrasound on neural-muscular tissue.

Prof. Frederick T. Simon (TexSci), \$1178 for studies on the fluorescent reflection spectrum of textile materials.

These two grants, together with one proposal currently before the Committee, effectively exhaust the funds of this Committee for the current fiscal year.

FULBRIGHT SCHOLAR AWARDS FOR PROFESSORS CUT SEVERELY

The Department of State has recently announced to some 2,300 applicants that senior research scholar and lecturer Fulbright awards will be reduced from 587 this current year to no more than 200 for the 1969-70 academic year.

This action is only one indication of the numerous austerity measures being effected by the federal government and other actions of this nature, some of which may affect drastically programs on this campus, must be anticipated.

NATIONAL TESTS (SUCH AS, GRADUATE RECORD, AMERICAN MEDICAL, ARCHITECTURAL, ETC.)

In order to better assist students who wish to take national tests and since the University now has a full-time psychometrist, the University has designated the Counseling Center as the Testing Center for all such tests. All application forms for tests will be secured there and all tests be given under the supervision of the Counseling Center. Persons who have assisted students in the past in securing application forms are asked to refer students to the Counseling Center in Tillman Hall. All announcements concerning such tests will be made by the Counseling Center.

SMITHSONIAN RESEARCH OPPORTUNITIES

A copy of Smithsonian Research Opportunities is available in the Graduate Office. This describes the facilities and staff research interests which are made available to the nations's universities by offering opportunities for visitors to conduct research. A limited number of stipends is available where financial support is required. Eligibility for direct support from the Smithsonian Institution is restricted to graduate students pursuing programs for academic credit from their home institutions and postdoctoral investigators within five years of the doctorate.

ADMINISTRATION

Geraldine Labecki (Dean, Nurs) presented a paper and participated in a panel discussion on "Expectations of the Registered Nurse" at a meeting of the Educational Administrators, Consultants, and Teachers section of the South Carolina Nurses Association meeting in Charleston, S. C. on Oct. 10.

H. F. Landrith (Dean, Ed) discussed the role of a School of Education in preparing Junior College Personnel at the annual meeting of the American Association of Colleges and Schools of Education in State Universities and Land Grant Colleges held in St. Louis, Mo., Oct. 17-18. He also delivered the dedication address when the Seneca Library held its dedication ceremony on Oct. 22.

Harlan E. McClure (Dean, Arch) presided over the annual meeting of the S. C. Board of Architectural Examiners, Columbia, S. C., Oct. 15-17.

L. G. Rich (Dean, Engr), S. G. Nicholas (Hd, Engr Res), L. C. Wilcox (Hd, EE), and F. A. Young (Asst Prof, IS) attended the National Academy of Engineering Symposium in Washington, D. C. on Oct. 30-31. The theme of this meeting was Bio-medicine.

ARCHITECTURE

Anders J. Kaufmann (Assoc Prof) and James D. Miller (M. Arch. Candidate) were co-authors of a research report, "Residential Pole Construction Systems," prepared for the Housing Research Division of the U. S. Forest Service.

Anders J. Kaufmann (Assoc Prof) participated in the annual A.I.A. Architect-Researcher's Conference and the meeting of the A.I.A. Committee on Research in Architecture at Wisconsin Dells, Wis., Sept. 24-26.

George C. Means (Prof) participated in Workshop VI of the 20th Mental Hospital Institute held in Washington, D. C., Sept. 30-Oct. 3.

Samuel Wang (Asst Prof) has exhibited 26 photographs at the Focus Gallery in San Francisco, Calif. from Sept. 10 to Oct. 5. He has also a one-man show of 30 photographs at the Museum of Art at the University of Oregon, Eugene, Ore., in November.

James R. Washburn (Asst Prof) attended meetings of the Southern Regional Research Committee (USDA Tech. Committee S-66) in conjunction with regional studies in low income housing being conducted by the University.

Joseph L. Young (Prof) was elected Secretary-Treasurer of the South Carolina Chapter of the A.I.A. in Atlanta, Ga., Oct. 12.

CHEMISTRY

J. C. Fanning (Assoc Prof) and V. M. Marganian (Ph.D. graduate) presented a paper, "The Reaction of Tellurium(IV) Chloride with Acetylacetone and Other Carbonyl Compounds," at the Northeast Regional Meeting of the American Chemical Society, Boston, Mass., Oct. 13-15.

J. H. Hobson (Prof) has been appointed a member of the American Chemical Society Committee to Aid the Educationally Disadvantaged. He attended the first meeting of the Committee in Washington, D. C., Nov. 2.

ELECTRICAL ENGINEERING

The Department of Electrical Engineering, College of Engineering, will conduct a 2-day seminar-workshop on "Analog and Hybrid Simulation in Industrial Systems Design" at Riggs Hall on Nov. 25-26. Electronic Associates, Inc., S.E. Regional Office, Rockville, Md., is co-sponsoring the program. Conducting the technical sessions of the program will be Dr. L. C. Wilcox and Dr. B. E. Gilliland from Clemson University and Mr. Tom Carey from Electronic Associates, Inc., West Long Branch, N. J.

Mr. K. R. Helton, Budget Director, Clemson University, will speak on "Americanism" at the banquet.

Advanced registration is handled through the Office of Industrial and Municipal Relations, College of Engineering, Prof. R. A. Banister, Coordinator.

ELEMENTARY AND SECONDARY EDUCATION

L. Lawson Byrd (Asst Prof) delivered a paper on "Self-Study for Initial Elementary Accreditation" at the Southern Association of Colleges and Schools fall meeting in Columbia, S. C.

GEOLOGY

V. S. Griffin, Jr. (Asst Prof) was elected Vice-President of the Carolina Geological Society, at the Society's Field Conference on the Carolina Slate Belt, held in Columbia, S. C., Oct. 18-20.

INDUSTRIAL EDUCATION

Donald E. Maurer (Assoc Prof) has been appointed to the National Committee on Definitions and Symbols of the American Welding Society.

INTERDISCIPLINARY STUDIES IN ENGINEERING

S. F. Hulbert (Hd) participated in a Public Health Service Site visit in the Franklin Institute, Philadelphia, Pa., on Oct. 28.

S. F. Hulbert (Hd) and M. J. Popowich (E. I. DuPont DeNemours and Co. at Niagra Falls, N. Y.) are the authors of a chapter entitled "Kinetics and Mechanisms on the Reaction Between TiO_2 and SrCO_3 ," Chapter 25, page 422-445 in Material Science Research, Plenum Press, New York (1968).

Two papers were presented at the 21st Pacific Coast Regional Meeting of the American Ceramic Society in Pasadena, Calif., Oct. 23-25, by members of the Division of Interdisciplinary Studies:

"Kinetics of Spinel Formation in Powder Compacts" by S. F. Hulbert (Hd), J. J. Klawitter (Grad Stud), and D. A. Brosnan, Iowa State University, Ames, Iowa.

"Material Of Construction for Orthopedic Implants" by S. F. Hulbert (Hd), J. J. Klawitter (Grad Stud), C. D. Talbert (Grad Stud), and C. T. Fitts, Medical College of South Carolina, Charleston, S. C.

D. A. Venkatu (Asst Prof) is the co-author of the following:

A paper entitled "Pore Formation During the Solid State Reaction Between Magnesium Oxide and Ferric Oxide" to be published in the Indian Institute of Metals.

A chapter entitled "Sintering of Two-Component Oxide Systems with Compound Formation" to be published in Materials Science Research.

A paper entitled "Grain Growth in 0.0075 Inch Foil of 99.999 Percent Aluminum" published in the Transactions of the Indian Institute of Metals.

MATHEMATICS

The Department of Mathematics hosted the annual meeting of the American Mathematical Society on Nov. 8 and 9. The following papers were presented by members of the department.

J. V. Brawley, Jr. (Assoc Prof), "On the ranks of bases of vector spaces of matrices."

A. S. Cover (Asst Prof), "An extension theorem for holomorphic functions" (with Prof. J. A. Cima, University of North Carolina at Chapel Hill).

J. D. Fulton (Asst Prof), "Symmetric, involutory matrices mod p^m ."

D. R. LaTorre (Asst Prof), "An internal characterization of the O-radical of a semigroup."

T. G. Proctor (Assoc Prof), "Characteristic multipliers for some periodic differential equations."

H. B. Reiter (Grad Asst), "Alpha-realcompact spaces."

Thomas G. Proctor (Assoc Prof) has been awarded a \$14,174 supplemental grant from the National Aeronautics and Space Administration to continue mathematical research which has possible applications to satellite orbit problems. Dr. Proctor initiated his study in 1967 under an original \$12,720 NASA grant. His mathematical research is a continuation study of long range solutions to certain mathematical problems which remained unsolved until ten years ago when some solutions were reached by United States and Russian mathematicians.

MECHANICAL ENGINEERING

Eugene Harrison (Prof) participated in a Systems Engineering Symposium held on the Georgia Institute of Technology Campus on Oct. 24-25.

James K. Johnson (Asst Prof) attended the Annual Instrumentation Society of America Conference and Exhibit in New York City, Oct. 28-30.

MILITARY SCIENCE

Clemson students donated over 200 pints of blood to the American Red Cross on Nov. 4.

On Nov. 11, 275 Clemson students participated in a Veterans Day Parade in Columbia honoring General William C. Westmoreland, Chief of Staff, U. S. Army.

NURSING

The State Board of Nursing for South Carolina has notified Dean Labecki that the baccalaureate program was granted initial accreditation and the Associate Degree program in nursing was granted full accreditation status at the meeting of this Board on Oct. 2.

Visitors to the University and to the School of Nursing on Oct. 21, were Dr. Mary Carl, Dean of the College of Nursing, University of Delaware, and Miss Gertrude Hotaling, Associate Professor Public Health Nursing, St. Joseph's College, Emmitsburg, Md. Dr. Carl and Miss Hotaling were visitors for the National League for Nursing. A site visit was made in response to the School of Nursing's application to the NLN for "Reasonable Assurance of Accreditation." A report of the School of Nursing visitors will be given before a Board of Review of the NLN. Schools which achieve the status of "Reasonable Assurance" are eligible to receive Federal funds for student loans, program development grants and construction grants. Favourable action on the nursing program does not guarantee ultimate NLN accreditation, but the consultation is valuable to the Dean and the Administration as plans for the new program are being developed. The School will be notified of its status on or before Feb. 1, 1969.

PHYSICS

At the recent meeting of the Southeastern Section of the American Physical Society held at the University of Georgia on Oct. 9-11, members of the Physics Department faculty and graduate students presented one invited and twelve contributed research papers. There were only two other universities in the south-east that exceeded this total number of papers--Vanderbilt University with nineteen and the University of Florida with fourteen.

The invited paper was given by F. J. Keller (Asst Prof) on the subject "V-Centers in Alkali Halides." The contributed research papers, in the order of their presentation, were:

D. R. Overcash (Grad Stud), M. J. Skove (Assoc Prof), and E. P. Stillwell (Assoc Prof), "The Effects of Elastic Stress on Some Electronic Properties of Indium and Indium Alloys."

R. J. Repka (Grad Stud) and F. J. Keller (Asst Prof), "The ESR Spectrum of V_K Centers in KI."

Ronald Fowler (Grad Stud) and H. W. Graben (Assoc Prof), "Triple-Dipole Potentials in Classical Nonpolar Fluids."

A. A. Kloba (Grad Stud), C. W. Ulbrich (Asst Prof), and J. L. Ging (Asst Prof), "A Stimulated Reflection Experiment to Demonstrate Correlation Between Photons from Independent Laser Beams."

A. B. Pruitt (Grad Stud) and R. L. Chaplin (Assoc Prof), "Electron Irradiation Study of Single Crystal Aluminum."

H. M. Simpson (Grad Stud) and R. L. Chaplin (Assoc Prof), "Interstitial Migration in Aluminum."

W. E. Faust (Grad Stud) and R. L. Chaplin (Assoc Prof), "Electron Irradiation Damage Rate Measurements in Magnesium."

G. R. Fletcher (Grad Stud) and R. L. Chaplin (Assoc Prof), "Radiation Damage of Titanium with 0.4 MeV Electrons."

M. W. Riley (Grad Stud) and M. J. Skove (Assoc Prof), "Stress-Strain Relations for Nickel Whiskers."

R. I. Miller (Grad Stud) and C. W. Ulbrich (Asst Prof), "Time Response and Thermal Diffusivity of Carbon Resistance Thermometers at Liquid Helium Temperatures."

R. E. Flannery (Grad Stud), E. P. Stillwell (Assoc Prof), and M. J. Skove (Assoc Prof), "Temperature Dependence of the Electrical Resistivity of Bismuth Whiskers."

COMMUNICATIONS CENTER

Three Clemson Communications Center staff members will be among the 4,000 educational broadcasters attending a National Association of Educational Broadcasters convention in Washington, D. C. Nov. 19th-22nd. Harry Durham (Dir), Earl Cosens, and Tom Greer will hear discussions on educational broadcasting and the freedom from ignorance.

McGeorge Bundy, former foreign and defense policy advisor to the late President Kennedy and President Johnson, will be the keynote speaker. Mr. Durham will be included in a special state department briefing given by Secretary of State Dean Rusk.

ENGLISH AND MODERN LANGUAGES

Richard J. Calhoun (Prof) will serve as chairman of a discussion circle in literary criticism, and John L. Idol, Jr., (Asst Prof) will chair a session in advanced writing during the 38th annual meeting of the South Atlantic Modern Language Association in Jacksonville, Fla., Nov. 14-16. Twelve other faculty members of the department of English and modern languages will also attend.

RESEARCH COORDINATING UNIT

J. H. Rodgers (Prof) attended a briefing session at the U. S. Office of Education, Washington, D. C., on Vocational Education Amendments of 1968.

Dr. Rodgers was invited to participate in a Conference of Representatives of Professional Organizations and Learned Societies on Oct. 30 in Washington, D. C. The Conference was sponsored by Associated Organizations for Teacher Education. The purpose was to foster development of guidelines for improving teacher education. AOTE is cooperating in this endeavor with AACTE and NCATE.

UNDERGRADUATE INSTITUTIONS ATTENDED BY CLEMSON GRADUATE STUDENTS

The present almost 700 graduate students at Clemson come from 170 different undergraduate colleges and universities located in 40 different states. Indicative of the geographical distribution, graduate students have come to Clemson from the University of Maine and the University of Miami in Florida, and from the University of Rhode Island as well as from the California Polytechnic Institute.

Roughly one-third of the graduate population comes from an undergraduate program at Clemson--this is just a trifle lower than the percentage at most land grant institutions. The smaller, private colleges of the southeast send a number of their graduates to our Graduate School, but graduate enrollment continues each year to exhibit greater geographical distribution.

Graduate enrollment gains were greatest this year in the College of Engineering.

FIRST-AID KIT IN TILLMAN

A complete first-aid kit is now located at the Information Office/Telephone Operator, First Floor, Tillman, and is available for use in Tillman Hall as required.

NEWSLETTER DEADLINES

The Newsletter will be published on Dec. 1 as usual. Deadline for material to be in this issue is Nov. 20. This issue will contain the complete calendar for December. The next issue will be published on Jan. 1. Material to be published in the January Newsletter must be submitted by Dec. 2. All academic news must be forwarded to the Assistant Dean of the University's office. All calendar items and news from the offices of the Vice President for Development, Vice President for Student Affairs, and Vice President for Business and Finance must be forwarded to the Office of Public Relations.

CALENDAR OF CAMPUS EVENTS

Nov.	16	Sat	10:30 a.m.	Soccer - University of Chattanooga at Chattanooga
Nov.	16	Sat	1:30 p.m.	Football - University of North Carolina at Clemson (IPTAY Day)
Nov.	18	M	4:00 p.m.	Agronomy 825 Graduate Seminar - Dr. F. I. Brownley, Jr., Dean, Graduate School, "The Responsibilities of the Graduate Student to the University, His Department and Major Professor," Room A203, P&AS Building.
Nov.	18	M	7:00 p.m.	Foreign Film Series - Spanish - Calle Mayor (The Lovemaker) Critics Prize, Venice International Film Festival. CE Auditorium, admission is free.
Nov.	19	Tu	12:00 Noon- 1:30 p.m.	Women of Teaching Faculty Luncheon, Clemson House
Nov.	19	Tu	4:00 p.m.	Research Faculty Council
Nov.	19	Tu	4:00 p.m.	Biochemistry Seminar - Dr. William L. Williams, Department of Biochemistry, Univ. of Georgia, will present a lecture entitled "Some Biochemical Aspects of Fertilization," Room 101, P&AS Bldg.

Nov.	19	Tu	8:00 p.m.	Speaker René Wellek, Sterling Professor of Comparative Literature, Yale University, "Form and Meaning in Tolstoy's <u>War and Peace</u> ," in Civil Engineering Auditorium.
Nov.	20	W	7:00 p.m.- 8:00 p.m.	Philosophy Lecture - Dr. Darrel E. Christensen, Chairman, Department of Philosophy, Wofford College, "Hegel's Vision of History," Chemistry Auditorium, Brackett Hall.
Nov.	21	Th	4:00 p.m.	Chemistry Seminar - Dr. F. A. Miller, Professor of Chemistry and Director of the Spectroscopy Laboratory at the University of Pittsburgh, "Studies in the Far Infrared." Room 131, Brackett Hall.
Nov.	21	Th	4:00 p.m.	Botany and Bacteriology Seminar - Mr. D. L. Ewert, "Microbiology of Waste Waters," Room 222, Long Hall.
Nov.	21	Th	4:00 p.m.	Dr. C. L. Angerman, Savannah River Laboratory, "Electron Microscopy in Metals Research." Room 101, Physics Building (Kinard Laboratory).
Nov.	21	Th	6:30 p.m.	The Dixie Section, Institute of Food Technologists will hold its Annual Student Awards Banquet at the Clemson House. Fourteen undergraduate students from three states will be honored including seven majoring in Food Science at Clemson.
Nov.	21	Th	8:00 p.m.	Concert - Yehudi and Hepzibah Menuhin - Fike Field House
Nov.	22-23	F-Sat		Carolina Dances - Dining Hall (Harcombe Commons)
Nov.	23	Sat	1:30 p.m.	Football - Univ. of South Carolina at Clemson (Dad's Day)
Nov.	23	Sat		Classes Suspended
Nov.	25-26	M-Tu		Seminar - Workshop on "Analog and Hybrid Simulation in Industrial Systems Design," sponsored by the Department of Electrical Engineering and Electronic Associates, Inc., S. E. Reg. Office, Rockville, Maryland, to be held in Riggs Hall.
Nov.	25-27	M-W		Follow Thursday, Friday, Saturday class schedule
Nov.	28-30	Th-Sat		Thanksgiving Holidays

Nov.	30	Sat	8:00 p.m.	Basketball - Georgia Tech at Clemson
Dec.	2	M	9:00 a.m.	Educational Council Meeting
Dec.	2	M	4:00 p.m.	Agronomy 825 Graduate Seminar - Dr. K. S. LaFleur, Assoc. Prof. of Agronomy & Soils, Clemson Univ., "Characterizing Selected South Carolina Soil Toposequences," Room A203, P&AS Building.
Dec.	2	M	7:00 p.m.	Foreign Film Series - German - The Bridge. Academy Award Nominee. Based on the novel by Manfred Gregor. CE Auditorium, admission is free.
Dec.	3	Tu	6:30 p.m.	Sage Club, Clemson House
Dec.	3	Tu	7:00 p.m.- 8:00 p.m.	Philosophy Lecture - Dr. Bowman Clarke, Professor of Philosophy and Director of Graduate Studies in Philosophy, University of Georgia, "The Question of the Existence of God," Chemistry Auditorium, Brackett Hall.



CLEMSON NEWSLETTER

INFORMATION FOR THE STAFF OF CLEMSON UNIVERSITY

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December 1, 1968

HONORS PROGRAM COUNCIL TO HAVE NEW CHAIRMAN

Effective January 1, 1969, Dr. Norman L. Olsen, Assistant Professor of English, will become Chairman of the Honors Program Council and will direct the Honors Program at Clemson University. He succeeds Assistant Dean of the University C. B. Green, who has been Chairman since January, 1962, when the present system of Honors Courses was established at Clemson.

Dr. Olsen was educated at Lawrenceville School, Lawrenceville, N. J., at Dartmouth College, where he received the B.A. degree in 1956, and at Duke University, where he was awarded the M.A. degree in 1959 and the Ph.D. degree in 1963. He was a member of the armed services from 1956 to 1958.

Joining the Clemson English faculty in 1963, Dr. Olsen now lives at 321 Woodland Way. He is a member of Phi Delta Theta social fraternity, the American Association of University Professors, and the Modern Language Association. His field of teaching and research is American literature of the nineteenth and twentieth centuries.

A review of the Honors Program is now being conducted in the various Colleges and Schools of the University with the object of strengthening and expanding it. Dr. Olsen and the Honors Program Council will give direction and coordination to these plans.

SOUTH CAROLINA BRANCH - AMERICAN SOCIETY FOR MICROBIOLOGY

The South Carolina Branch of the American Society of Microbiology held the annual fall meeting at the Medical College of South Carolina on Nov. 1. A number of staff members and students from Clemson attended the meeting. H. Furman Cantrell of the Department of Botany and Bacteriology retired as President of the branch. Dr. Ann Baxter and Dr. M. J. B. Paynter of the Botany and Bacteriology Department were chosen as Councilor and Alternate Councilor, respectively.

A number of papers were presented. Those from Clemson included: "Bacterial Mobility in Porous Media" - Dr. Larry Vereen, Food Science and Biochemistry; "Developmental Cycle and Cytochemistry of the Sporadic Bovine Encephalomyelitis Agent in Cell Culture" - Dr. Juan Solis, Poultry Science; "Virulent Coliphage Infections in Continuous Culture" - Dr. M. J. B. Paynter, Mr. C. E. Stevenson, Dr. H. R. Bungay, and L. H. McCaskill, Botany and Bacteriology Department and Environmental Systems Engineering Department, respectively.

Others attending from Clemson included: Valarie Paynter, John Bond, James Dick, Frank Breazeale, Frank DeWork, Theresa Michael, Katherine Kelly, William Brewer, Gretchen Belser, Jane E. Bartles, and David Lyle.

MINUTES OF THE OCTOBER RESEARCH FACULTY COUNCIL MEETING

The Research Faculty Council convened two October sessions at 4:00 p.m. Oct. 15 and 22 in Room 28 Tillman Hall.

The committee appointed to study faculty advancement to the rank of full professor recommended that any additional considerations be undertaken in cooperation with the Faculty Senate.

A policy committee report recommended that M.S. and Ph.D. degrees should require a thesis, and these degree designations should be reserved for degrees that require a thesis. A majority of the council members voted in favor of the recommendation. This item is still under consideration.

The Council adopted a resolution that the complete minutes be published in the Newsletter.

The Council wishes to remind faculty members of a campus-wide contract with a major supply company. Use of this service may save money on many items.

The Council discussed the recent administration proposal concerning the housing of graduate students in the Clemson House during periods when the dormitories are closed. The committee on housing recommended that a dormitory be designated as a graduate student dormitory for year-around occupancy.

A committee was appointed to consider the University leave policy, and to compare Clemson's leave policy with that of other institutions.

Other items discussed included (a) facilities for central chemical storage, (b) review of the statement on academic freedom in the Faculty Manual, and its relation to the Research Faculty, (c) outside work by faculty members, and (d) sabbatical leave policy.

POSTPONEMENT OF INDUCTION FOR CERTAIN STUDENTS

The following message has just been received from the National Headquarters of the Selective Service System. Its content is of prime importance.

State Director Advice No. 763

Issued: October 24, 1968

Subject: Postponement of Induction for Certain Students

"When college students are ordered to report for induction during a school term in which they are satisfactorily pursuing full-time postbaccalaureate courses, consideration should be given, on an individual case basis, to a postponement of induction until the end of the term (quarter, trimester, or semester)."

Lewis B. Hershey
Director

GIFTS AND AWARDS

Mathematics has been awarded a \$14,174 grant from the National Aeronautics and Space Administration to continue an investigation, under the direction of Dr. T. G. Proctor, dealing with the existence of almost periodic solutions for certain differential and functional equations containing almost periodic members.

Physics has been awarded a \$39,662 grant from the U. S. Atomic Energy Commission to continue an investigation, under the direction of Dr. R. L. Chaplin, of radiation effects in crystalline materials.

Entomology and Zoology has been awarded an \$8,400 grant from the National Science Foundation to continue the study, under the direction of Dr. A. S. Tombes, of neuroendocrine regulation of diapause in adult insects.

Electrical Engineering has been awarded a \$26,410 grant by Greenwood Mills for the investigation, under the direction of Dr. L. C. Wilcox, of a systems study of yarn characteristics.

Education has been awarded a \$38,420 grant from the U. S. Office of Education for the operation, under the direction of Dr. J. H. Rodgers, of the South Carolina Vocational Education Research Coordinating Unit.

Agronomy and Soil Science has been awarded a \$10,000 grant, under the direction of Dr. G. R. Craddock, from the S. C. Soil Conservation Committee for pedological studies of South Carolina soils.

CHRISTMAS CONCERT

The Clemson University Glee Clubs, under the direction of Joseph E. Jackson, will present their annual Christmas Concert on Thursday, Dec. 5, 8:00 p.m. in Tillman Hall.

Antiphonal Choruses (divided choirs) will present the first part of the program with music of Palestrina, Leisring, Hassler and Track.

The Women's Glee Club will present a "Magnificat" by Niccolai Porpora, who was a contemporary of J. S. Bach.

"Te Deum", a contemporary work by Flor Peeters will be presented by the Men's Glee Club, plus a group of seasonal carols.

Combined Glee Clubs will present a group of Alfred Burt Carols, and the familiar "'Twas the Night Before Christmas" as a lighter portion of the program.

The public is cordially invited to attend.

NEXT ISSUE OF THE NEWSLETTER

The next issue of the Newsletter will be on Jan. 1. Deadline for copy will be Dec. 2.

SUMMARY OF THE MINUTES OF THE FACULTY SENATE, NOVEMBER 12, 1968

The Faculty Senate was polled by J. F. Pearce, Chairman of the Committee to Study Advantages and Disadvantages of the Quarter System and Other Methods of Operation, in order to determine if the Senate felt that the disadvantages of the present semester system were sufficient to warrant additional action by the committee. The Senate voted against the continuation of the committee's investigation, thereby in effect dissolving the committee.

A motion was passed to have an appropriate committee draw up a statement expressing the sentiment of the Faculty Senate on the question of whether or not the ROTC program at Clemson should be mandatory. Following a lengthy discussion, it was decided that after the Policy Committee has prepared such a statement it will be reported back to the Senate for a vote.

J. V. Brawley, Jr. will be the Faculty Senate representative on the proposed University Committee on Recreational Facilities at Clemson.

D. W. Lyons, Chairman of the Welfare Committee, received an affirmative response in his request to continue to collect information on fringe benefits at Clemson as compared with other institutions and to circulate comparison studies of salary scales.

B. J. Prochaska, representing the Policy Committee, recommended that the proposal concerning the nature and scope of Faculty Senate activities, which had been brought before the Senate in August, be replaced by the following statement of policy:

- (a) That Committee Chairmen maintain a list of all active and inactive projects. The list should be revised at each committee meeting or as required. Active projects should be listed in order of priority and each committee's attention should be directed to the most important projects.
- (b) That all committee reports be made to the Senate in writing. Where possible committee reports should be distributed to members prior to the meetings.
- (c) That all proposed resolutions be submitted in writing.
- (d) That the President consider the development of a specific set of operating procedures which will augment and expedite parliamentary procedures during regular Senate sessions.

J. K. Reed, Chairman of the Admissions and Scholarship Committee, reported that the committee has considered three proposals from the Student Senate. A proposal to liberalize class attendance was generally favored by the committee with the reservation that some considered class participation a valuable part of some courses. A pass-fail system for a limited number of courses was acceptable in principle but certain details were asked for. The committee will make no recommendation on these two items until the next meeting of the Faculty Senate. A third item concerning the traditional minor field of concentration was not considered as part of the responsibility of the committee.

THE CLEMSON UNIVERSITY CHORALE SOCIETY TO PRESENT J. S. BACH'S "CHRISTMAS ORATORIO"

The Clemson University Chorale Society, under the direction of Joseph E. Jackson, will present for the second year the "Christmas Oratorio" of Johann S. Bach. This concert will be presented in the Clemson Baptist Church, Sunday, Dec. 8, at 3:00 p.m.

The Christmas Oratorio was composed in 1734. This work is divided into six parts for performance on the first, the second, and the third days of the Festival of Christmas, on New Year's Day, on the Sunday after this, and on the Festival of the Epiphany. This Oratorio well illustrates the events of the Christmas season as it is celebrated throughout the Christian world.

The public is cordially invited.

ADMINISTRATION

Victor Hurst (Dean of the Univ) has accepted an invitation from the Office of Education, Department of Health, Education, and Welfare, to serve a two-year term as a member of a newly organized Advisory Committee on Accreditation and Institutional Eligibility. The function of the committee in general will be to assume a major role in the review and recommendation of the Office of Education's policies relating to its responsibilities in the whole area of accreditation and institutional eligibility. He also attended the annual meeting of the National Association of State Universities and Land-Grant Colleges held Nov. 11-13 in Washington, D. C.

Claud B. Green (Asst Dean of the Univ) and K. N. Vickery (Dean, Adm and Reg) attended the Fifth National Summer Sessions Conference at the University of Notre Dame on Nov. 19-21 and led a program on "Planning the Summer Sessions."

L. G. Rich (Dean, Engr) spoke on "Research Projects at Clemson University Relating to Pollution Control" during the Technical Session at the Nineteenth Annual Meeting of the South Carolina Water and Pollution Control Association in Columbia, S. C., Nov. 15.

AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

Adger B. Carroll (Asst Prof) presented a paper, "Education for Reduction of Rural Poverty" at the session on rural poverty of the annual meeting of the Southern Economic Association, Washington, D. C., Nov. 8. The paper will be published by the Agricultural Policy Institute of North Carolina State University.

ARCHITECTURE

Harlan McClure (Dean) was a guest speaker at the Interprofessional Conference on Environmental Design at Notre Dame University, Nov. 12. He was the first panel speaker of the conference and reported on the current state of architectural education. Representatives from the professions of civil engineering, architecture, landscape architecture, city planning, and engineering systems were invited to attend the two-day meeting.

BOTANY AND BACTERIOLOGY

A paper entitled "Virulent Coliphage Infections in Continuous Culture," by M. J. B. Paynter, C. E. Stevenson, H. R. Bungay III, and L. H. McCaskill was presented by C. E. Stevenson (grad stud, Microbiol) at the Fall meeting of the South Carolina Branch of the American Society for Microbiology held at the Medical College, Charleston, S. C., on Nov. 1.

CERAMIC ENGINEERING

G. C. Robinson (Hd) was invited lecturer to the Pacific Coast Regional Meeting of the American Ceramic Society on the topic "Design of Bodies for Controlled Microstructure" on Oct. 23. He was also luncheon speaker for the National Institute of Ceramic Engineers in Pasadena, Calif., on Oct. 25. He talked on "Revolt and Higher Education." Prof. Robinson also presented one of the seminars on extrusion during a conference at Pennsylvania State University, Nov. 10-12.

CHEMICAL ENGINEERING

The Department of Chemical Engineering, Clemson University; The American Institute of Plant Engineers; and the S. C. Pollution Control Authority will conduct a Seminar on "Air and Water Pollution Control Equipment Design" at Clemson House and Earle Hall on Thursday-Friday, Dec. 5-6, 1968.

Dr. F. C. Alley and Dr. A. R. Abernathy will be session chairmen. President R. C. Edwards will extend the welcome.

Dr. Emil T. Chanlett, Professor of Environmental Engineering, will speak at the banquet, Thursday evening, Topic: "What Chance for Progress in Air Pollution Control."

Dr. W. M. McLellon, Associate Professor of Environmental Systems Engineering, Clemson University, will speak at the luncheon, Friday, Topic: "Water and Wastewater Treatment Plant Operator Training."

Advance registration is handled through Office of Industrial and Municipal Relations, College of Engineering.

G. F. Meenaghan (Prof) attended a meeting of the Commission on Environmental Hygiene, Armed Forces Epidemiology Board to give an oral report on his three year Research Contract of Air Force School of Aerospace Medicine Brooks Air Force Bases, San Antonio, Tex.

C. E. Littlejohn (Hd) was a guest of the American Enka Corporation for a two day tour of facilities in Tennessee and North Carolina.

D. F. Bruley (Asst Prof) was a guest of the Union Camp Paper Company for a three day meeting of College placement representatives and faculty in Savannah, Ga. He has also been invited to be on ISA's list "Distinguished Speakers on Instrumentation" Process Dynamics and Control. (1968-69)

CHEMISTRY

F. B. Brown (Assoc Prof) presented two lectures in the area of molecular spectroscopy at Lenoir-Rhyne College, Hictory, N. C., Nov. 14.

J. C. Fanning (Assoc Prof) lectured on solid-gas reactions to the chemistry faculty and students at Mercer University, Macon, Ga., Nov. 20, and at Georgia State College, Milledgeville, Ga., Nov. 21.

CIVIL ENGINEERING

The Department of Civil Engineering, Clemson University, and the S. C. State Highway Department will conduct a Seminar-Workshop on Quality Control and Materials Testing for Highway Engineers" at Clemson House and Lowry Hall on Thursday-Saturday, Dec. 12-14, 1968.

Dr. A. E. Schwartz, Head of Civil Engineering, will moderate the Seminar-Workshop. President R. C. Edwards will extend the welcome.

Presenting portions of the program will be Professor J. P. Rostron, Dr. H. W. Busching, Professor B. J. Todd, Dr. J. D. Antrim, Mr. O. S. Fletcher, Research Engineer, S. C. State Highway Department, and invited lecturers; Mr. H. H. Mitchell, Vice President, Spartanburg Concrete Company, and Mr. J. B. Dunbar, District Engineer, Asphalt Institute, Montgomery, Alabama.

Professor Vernon S. Hodges, School of Architecture, Clemson University, will be the banquet speaker, Topic: "Streets Through the Ages."

Coordinating the Seminar-Workshop is Office of Industrial and Municipal Relations, College of Engineering.

ECONOMICS

Hugh H. Macaulay (Alumni Prof) and James M. Stepp (Prof, AgEc) have published a monograph entitled The Pollution Problem. Publication and distribution is to be undertaken by the American Enterprise Institute for Public Policy Research.

John F. Pearce (Assoc Prof) was selected by Phi Kappa Phi on Oct. 1; invitation banquet was held on Nov. 5 at the Clemson House Hotel with Dr. R. C. Edwards as the speaker.

Leroy B. Brandt, Chief Commissioner, South Carolina Department of Insurance, spoke to Clemson economics students and faculty on Risk and Insurance at Clemson on Oct. 30. Mr. Brandt's topic was "The Regulation of Insurance in South Carolina."

ENGINEERING MECHANICS

James G. Goree (Assoc Prof) attended the Sixth Annual Meeting of the Society of Engineering Science in Princeton, N. J. from Nov. 10-14.

ENTOMOLOGY AND ZOOLOGY

J. H. Cochran (Hd) and L. G. Webb, (Ldr, Wildlife Resources Project) attended the Twenty-Second Annual Conference of the Southeastern Association of Game and Fish Commissioners and the Annual Meeting of the Southeastern Wildlife Biologists in Baltimore, Md. from Oct. 19-24.

Richard C. Fox (Prof) and President of The South Carolina Entomological Society, attended the Commemorative Banquet on Oct. 26 honoring the Seventy-Fifth anniversary of the New York Entomological Society. Dr. Fox was sent by the South Carolina Entomological Society as a representative for this important event.

S. B. Hays (Assoc Prof) has been asked by the World Health Organization to serve as a "Clearing House" for collection and shipment of diseased insect specimens to proper laboratories for identification of insect disease organisms.

A. S. Tombes (Assoc Prof), D. J. Forrester (Asst Prof), T. R. Adkins, Jr. (Prof), and C. D. Riddle (Grad Asst) visited the Experiment Stations at Tifton, Ga. from Oct. 28-30 to attend conferences on insect physiology, toxicology and parasitology. The conference on Insect Physiology and Toxicology was the twenty-ninth such meeting held.

W. K. Willard (Asst Prof) visited Oak Ridge, Tenn. from Oct. 20-23 and attended the Oak Ridge Information Meetings.

ENVIRONMENTAL SYSTEMS ENGINEERING

A. R. Abernathy (Assoc Prof), B. C. Dysart (Asst Prof) and J. C. Dyer (Assoc Dir, Cont Ed) represented Clemson at the annual meeting of the Pollution Control Section of the S. C. Water and Pollution Control Association in Columbia, S. C. on Nov. 14 and 15.

INDUSTRIAL MANAGEMENT

C. C. Davis (Prof) has been selected as Chairman for S. C. of the American Accounting Association for the next two years.

B. J. Todd (Assoc Prof) attended a Technical Conference on statistics in Durham, N. C., on Oct. 17-18.

INTERDISCIPLINARY STUDIES IN ENGINEERING

L. E. Poteat (Assoc Prof) and D. A. Venkatu (Asst Prof) attended the National Fall Meeting and Congress of the American Institute of Metallurgical Engineers in Detroit, Mich., Oct. 14-17. Prior to the Technical Meetings they attended two Seminars on Oct. 13.

L. E. Poteat (Assoc Prof) and C. S. Yust (Oak Ridge National Laboratory) are authors of Chapter 31 "Grain Boundary Reactions during Deformation" in the book CERAMIC MICROSTRUCTURES, THEIR ANALYSIS, SIGNIFICANCE, AND PRODUCTION.

NURSING

Mrs. Dorothy H. Davenport (Asst Prof) and Mrs. Beverly D. Roberts (Instr), attended a two-day workshop in Evaluation at the University of Georgia in Augusta, Ga., Oct. 22-23.

Geraldine Labecki (Dean) and Lida Williams (Dir, Assoc Degree Program) attended the 11th meeting of the S. R. E. B. Council on Collegiate Education for Nursing in Atlanta, Ga., Oct. 30-Nov. 1.

Geraldine Labecki (Dean) attended the meetings of the South Carolina Nurses' Association in Charleston, Nov. 6-9, and the National League for Nursing Council of Member Agencies of the Department of Baccalaureate and Higher Degree Programs in Phoenix, Ariz., Nov. 12-16.

PHYSICS

H. W. Graben (Assoc Prof) was guest lecturer at the Physics Colloquium of the University of South Carolina on Oct. 17. The title of his lecture was "Three-Body Intermolecular Forces."

Two faculty members are senior authors of papers presented at the Miami meeting of the American Physical Society, Nov. 25-27. These are:

R. L. Chaplin (Assoc Prof) and C. E. Kennedy (Grad Stud), "Radiation Damage of Copper by 0.4 MeV Electrons."

H. W. Graben (Assoc Prof) and R. H. Fowler (Former Grad Stud), "Three-Body Electrostatic Forces Among Polar Molecules."

H. W. Graben (Assoc Prof) and R. H. Fowler (Former Grad Stud) are authors of an article which will appear in the Jan. 6, 1969 issue of The Physical Review. The title of the article is "Triple-Dipole Potentials in Classical Nonpolar Fluids."

RECREATION AND PARK ADMINISTRATION

Herbert Brantley (Hd) has been named Chairman of the Society of Park and Recreation Educators' Educational Materials Committee. This new Committee will work with officials of the National Recreation and Park Association in formulating policies and procedures for the development of publications and instructional materials.

RESEARCH COORDINATING UNIT

John H. Rodgers (Dir) attended the meeting of the Southwide Research Coordinating Council in Atlanta, Nov. 13-14. The meeting focused upon research provisions of the 1968 vocational education amendments. Prof. Rodgers has also been invited to present a paper at the American Vocational Association meeting in Dallas, Dec. 8-13.

TEXTILES

Bhuvnesh C. Goswami (Visiting Lect) will have a paper published in the Textile Research Journal in December 1968 or January 1969 entitled, "The Hairiness of Cotton Yarns (An Improvement over the Existing Microscopic Techniques)."

J. J. Porter (Assoc Prof) has been granted a patent on an invention relating to the "Preparation and Use of Fluoroalkyl Orthoesters."

CALENDAR OF CAMPUS EVENTS

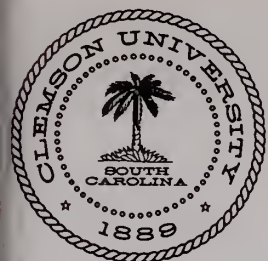
Dec.	2	M	9:00 a.m.	Educational Council Meeting
Dec.	2	M	4:00 p.m.	Agronomy 825 Graduate Seminar - Dr. K. S. LaFleur, Assoc. Prof. of Agronomy & Soils, Clemson University, "Characterizing Selected South Carolina Soil Toposequences," Room A203, P&AS Bldg.
Dec.	2	M	7:00 p.m.	Foreign Film Series - German - The Bridge. Academy Award Nominee. Based on the novel by Manfred Gregor. CE Auditorium, admission free.
Dec.	3	Tu	6:30 p.m.	Sage Club - Speaker is Dr. Gilbert C. Robinson, (The Wedgewood Champion Fight," Clemson House.
Dec.	3	Tu	7:00 p.m.- 8:00 p.m.	Philosophy Lecture - Dr. Bowman Clarke, Professor of Philosophy and Director of Graduate Studies in Philosophy, University of Georgia, "The Question of the Existence of God," Chemistry Auditorium, Brackett Hall.
Dec.	5	Th	4:00 p.m.	Botany and Bacteriology Seminar - Mr. C. D. Riddle, "Cellular Inhibitors of Viral Infections," 222 Long Hall.
Dec.	3	Th	4:00 p.m.	Dr. J. K. Miller, University of Tennessee, AEC Agricultural Research Laboratory, speaking on: "Zinc Metabolism in Dairy Calves," Room C-127, P&AS Bldg.
Dec.	3	Th	8:00 p.m.	Graduate Wives Meeting, YMCA, Guest speaker Mr. Carlyle Morgan of Morgan's Flowers & Gifts Shop.
Dec.	3	Th	8:00 p.m.	Clemson University Glee Clubs Concert, Tillman Hall

Dec.	5-6	Th-F		Seminar - "Air and Water Pollution Control Equipment Design," sponsored by College of Engineering; American Institute of Plant Engineers; and S. C. Pollution Control Authority, to be held at Clemson House and Earle Hall.
Dec. Jan.	5- 12	Th-Sun		School of Architecture - Student Work, Rudolph Lee Gallery - Lee Hall.
Dec.	6	F-Sat		Clemson Children's Theatre Production
Dec.	6	F	8:00 p.m.	Foreign Language Christmas Carol Sing: The Story of Christmas in Song and Tableau, with students from French, German, Spanish, and Russian classes participating. Tillman Hall Auditorium. Everyone invited.
Dec.	7	Sat	8:00 p.m.	Basketball - Louisiana State at Clemson.
Dec.	8	Sun	3:00 p.m.	<u>The Christmas Oratorio</u> - J. S. Bach performed by the Clemson Chorale Society, Clemson Baptist Church.
Dec.	9	M		Examinations Begin
Dec.	10	Tu	4:00 p.m.	Biochemistry Seminar - Dr. R. F. Borgman, "Experimental Studies of Gallstones." Room 101, P&AS Bldg.
Dec.	12-14	Th-Sat		Seminar - Workshop on "Quality Control and Materials Testing for Highway Engineers," co-sponsored by the Department of Civil Engineering and S. C. State Highway Department, to be held at Clemson House and Lowry Hall.
Dec.	14	Sat		Graduate Record Exam., Room 20, Tillman Hall
Dec.	16	M	8:00 p.m.	Basketball - UNC at Chapel Hill, N. C.
Dec.	17	Tu	12:00 Noon- 1:30 p.m.	Women of Teaching Faculty Luncheon, Clemson House
Dec.	19	Th		Graduation
Dec.	19	Th	2:30 p.m.	Joint Army-Air Force Commissioning Exercise. Brig. General William V. McBride, Commander, 437th Military Airlift Wing, Charleston AFB, S. C. will be principal speaker, honoring cadets receiving commissions in the Army and Air Force. Tillman Hall Auditorium.

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Dec.	19	Th	8:00 p.m.	Basketball - University of Alabama at Tuscaloosa, Ala.
Dec.	21	Sat	8:00 p.m.	Basketball - Auburn University at Birmingham, Ala.
Dec.	28	Sat	8:00 p.m.	Basketball - Duke at Durham, N. C.
Jan.	2	Th	8:00 p.m.	Basketball - The Citadel at Clemson
Jan.	4	Sat	8:00 p.m.	Basketball - USC at Columbia, S. C.
Jan.	4	Sat		Architectural School Aptitude Test, Room 20, Tillman Hall.



CLEMSON NEWSLETTER

INFORMATION FOR THE STAFF OF CLEMSON UNIVERSITY

Vol. 8 No. 9

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January 1, 1969

110 HIGH SCHOOL STUDENTS PARTICIPATE IN "SCIENCE IN TEXTILES"

On Tuesday, Nov. 19, about 110 high school students representing 56 different high schools from throughout the state were guests at Clemson's Textile Department's "Science in Textiles" Fair. They were accompanied by some 25 textile industry executives and 6 high school science instructors and guidance counselors. These young college prospects took a first-hand look at the amazing worlds of Textile Chemistry, Polymer Science, Color Science, Textile Processing and Marketing Techniques. After touring the University campus and the Sarrine Hall research and training facilities, they saw films and presentations on the benefits of careers in textiles.

A similar program was held for Greenville County students on Dec. 7.

AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

W. J. Lanham (Hd) participated in a conference on Soil, Water and Suburbia in Athens, Ga., Nov. 25-26.

CERAMIC ENGINEERING

C. C. Fain (Assoc Prof) was elected Vice Chairman of the Southeastern Section, American Ceramic Society, during their annual meeting in Birmingham, Ala., Nov. 22.

C. C. Fain (Assoc Prof) and H. G. Lefort (Asst Prof) planned the program for, and presented a paper entitled "Thrombosis Resistant Bioceramic Materials" at a special symposium on ceramics and composites which was part of the Dec. 4-5 meeting of F-4 Committee on Surgical Implants of the American Society for Testing and Materials in New Orleans.

ELECTRICAL ENGINEERING

T. L. Drake (Assoc Prof), B. E. Gilliland (Asst Prof), and A. O. Bishop (Grad Fellow) attended the Simulation Councils, Inc./Analog Hybrid Computer Educational Users Group joint meeting at North Carolina State University, Raleigh, N. C., Nov. 12.

ELECTRICAL ENGINEERING (continued)

K. R. Dunipace (Grad Stud) presented "Optimization of Multi-Dimensional Control Systems Having Cross-Correlation Signals" at the Symposium of the International Federation of Automatic Control, Duesseldorf, Germany, in October 1968. J. C. Martin (Prof) was co-author.

Ron Kopczyk (Res Engr) attended a three-day seminar on application and calibration procedures for the 545B oscilloscope at Tektronix Instruments in Atlanta, Ga., Nov. 20-21.

Jim T. Long (Prof) was elected chairman of the South Carolina Section of IEEE at the State Technical Conference held at Aiken, S. C., on Nov. 15.

J. C. Martin (Prof) presented "A Simple Development of the Wiener-Hopf. Equation and the Kalman Filter from It" to the IEEE Mexico Section of the Professional Group of Aerospace and Electronic Systems, Mexico City, November 1968.

Robert W. Snelsire (Assoc Prof) presented a paper entitled, "Computer Learning Through Association" at the Second Conference on Applications of Simulation in New York on Dec. 2.

The Department of Electrical Engineering, Clemson University, and Electronic Associates, Inc., Rockville, Md., conducted a Seminar-Workshop on "Analog and Hybrid Simulation in Industrial Systems Design," at Riggs Hall on Monday and Tuesday, Nov. 25-26. L. C. Wilcox (Hd) was the Seminar-Workshop Moderator. Presenting portions of the program were B. E. Gilliland (Asst Prof) and Tom Casey (EAI). Tom Fyerly (EAI) assisted with the practical exercises.

ENGLISH AND MODERN LANGUAGES

Richard J. Calhoun (Prof) is the author of "Whatever Happened to the Poet-Critic?" in the first issue of the new Southern Literary Journal, published at Chapel Hill, N. C., by the newly organized Society for the Study of Southern Literature.

ENVIRONMENTAL SYSTEMS ENGINEERING

John F. Andrews (Hd) presented a series of lectures of Anaerobic Digestion of Organic Wastes at Montana State University on Nov. 20.

W. M. McLellon (Assoc Prof) attended a meeting of the program planning committee for the National Conference on Wastewater Operating Personnel, Chicago, Ill., Nov. 22.

EXPERIMENTAL STATISTICS

W. P. Byrd (Prof In Charge) read a paper before the Genetics, Cytogenetics and Plant Breeding Section of the 60th Annual Meeting of the American Society of Agronomy at New Orleans, La., Nov. 11-15. The paper was co-authored by D. Graham (Asst Prof, Agron and Soils).

W. E. Johnston (Asst Prof) attended a Technical Conference on Statistics at Durham, N. C., Oct. 17-18.

C. B. Loadholt (Asst Prof) will return from study leave January 1969 to assume teaching and research duties. He is completing the requirements for the doctorate at Virginia Polytechnic Institute.

INDUSTRIAL EDUCATION

Marshall S. Hahn (Asst Prof) was awarded third prize in the national "Design Today" contest sponsored by the Rockwell Manufacturing Company, Philadelphia, Pa. His winning entry was an "Executive Desk Clock" executed in American walnut and sterling silver.

INDUSTRIAL MANAGEMENT

C. O. Shuler (Assoc Prof) was a recent participant in the presentation and critique of a paper entitled, "The Validation and Extension of Fiedler's Theory of Leadership Effectiveness," presented at the Southern Management Association Meeting in Washington on Nov. 7. Dr. Shuler was accompanied to this meeting by Clinton H. Whitehurst (Hd), Susan Brown (Asst Prof), George Christou (Asst Prof), Gayle Riggs (Asst Prof), and Charles Burden (Asst Prof), all of the Industrial Management Department.

Clinton H. Whitehurst (Hd) participated in a regional meeting of the Institute of Management Sciences at the University of Tennessee at Knoxville, on Nov. 24-25.

Thomas H. Gunter (Asst Prof) has been elected to membership in the Sales and Marketing Executives Club of Greenville, and serves as one of two educational members of the club.

Mr. Gunter's first assignment is to organize a Clemson University chapter of Pi Sigma Epsilon, a national professional fraternity in marketing, sales management, and selling, sponsored by the Sales and Marketing Executives Club.

MECHANICAL ENGINEERING

C. A. Brandon (Assoc Prof), T. T. Yang (Assoc Prof), E. Harrison (Prof), and A. C. Elrod (Assoc Prof) attended the Winter Annual Meeting of the American Society of Mechanical Engineers held in New York City, Dec. 1-4.

J. A. Chisman (Assoc Prof) attended the Second Conference on Applications of Simulation in New York City, Dec. 1-5.

POULTRY SCIENCE

C. F. Risher (Assoc Ext Spec) has been invited to participate and speak to the annual meeting of the British Turkey Federation, Ltd., Eastbourne, Sussex, England, on Feb. 3-5, 1969. Mr. Risher will discuss the Southeastern Region of the United States. While in England he will also visit units of the British Turkey Industry.

TEXTILE SCIENCE

Thomas Campbell (Hd) has been elected Secretary of the Piedmont Chapter of the American Association for Textile Technology.

GIFTS AND GRANTS

Electrical Engineering Department received Westinghouse Electric Corporation "Integrated Circuit for Education Grant" of 2,054 Integrated Circuits--estimated value of the grant is \$4,200.

Horry County Historical Committee, \$5,000 to Horticulture, for development of historical horticultural gardens.

Chemagro Corp., \$500 to Botany and Bacteriology, for fungicides on summer squash.

S. C. Soil Conservation Service, \$10,000 for Agronomy and Soils' survey program.

University of Wisconsin, \$3,000 to Pee Dee Experiment Station, for research on manduca sexta.

CALENDAR OF CAMPUS EVENTS

Jan.	2	Th	8:00 p.m.	Basketball - The Citadel at Clemson
Jan.	4	Sat	8:00 p.m.	Basketball - USC at Columbia, S. C.
Jan.	4	Sat		Architectural School Aptitude Test, Room 20, Tillman Hall
Jan.	5-8	Sun-W		Clemson Music Club Production
Jan.	6	M	9:00 a.m.	Educational Council Meeting
Jan.	6			Matriculation, New Students
Jan.	6-10	M-F		Ceramic Engineering - Short Course for Brick Manufacturers - Olin Hall
Jan.	7	Tu	6:30 p.m.	Sage Club, Clemson House
Jan.	7-8	Tu-W		Registration, All Students
Jan.	8	W	8:00 p.m.	Basketball - Georgia Tech at Atlanta, Ga.
Jan.	9	Th		Classes Begin, Abbreviated Schedule
Jan.	10	F		Dental Aptitude Test, Room 20, Tillman Hall
Jan.	11	Sat	8:00 p.m.	Basketball - University of Va. at Charlottesville, Va.
Jan.	13	M	8:00 p.m.	Basketball - University of Maryland at College Park, Maryland
Jan.	14	Tu	4:15 p.m.	Faculty Senate Meeting, Olin Hall Auditorium
Jan.	14	Tu	8:00 p.m.	Concert - Ferrate and Teicher - Fike Field House
Jan.	16	Th	8:00 p.m.	Basketball - Furman at Clemson
Jan.	16	Th		Last day for matriculation
Jan.	18	Sat		Graduate Record Exam., Room 20, Tillman Hall





CLEMSON NEWSLETTER

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Vol. 8 No. 10 CLEMSON UNIVERSITY LIBRARY
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JAN 16 1969



A portrait of the late Dr. John Charles Barnett was unveiled by his widow, Mrs. Jean Barnett, and their two children, Scott and Alison, during ceremonies held in December at Redfern Health Center. A medical library within the new facility has been named in memory of Dr. Barnett who died last July. With the family are President Robert C. Edwards and Dr. Judson E. Hair, director of student health services.

332 DEGREES AWARDED AT DECEMBER GRADUATION

At December graduation exercises, Clemson awarded 332 degrees: 262 bachelor's degrees, 61 master's degrees, and nine doctorates. Including ceremonies held in May and August, the University awarded 1,036 degrees during 1968,

332 DEGREES AWARDED AT DECEMBER GRADUATION (Continued)

the largest number in one year in the institution's history. Commencement speaker Dr. William M. McCord, president of the Medical College of South Carolina, told the graduates that responsible leadership and continued education on their part are necessary to keep the reins of direction and control out of the hands of irresponsible young people.

Seventy-two cadets received second lieutenant commissions at commissioning ceremonies.

HIGH-RISE DORMITORY NAMED IN HONOR OF A. FRANK LEVER

The second high-rise residence hall, completed and occupied last August, has been named in memory of A. Frank Lever, eminent South Carolina statesman and Clemson life trustee. Mr. Lever, who died in 1940 and is buried at Woodland Cemetery on campus, had a distinguished career as a member of the S. C. House of Representatives, the U. S. House of Representatives, the Federal Farm Loan Board, and as president of the first Carolinas Joint Stock Land Bank. He was co-author of the Smith-Lever Act which established agricultural extension services at the nation's land-grant colleges and institutions.

"Mr. Lever served South Carolina and the nation in many important ways," said President Robert C. Edwards, "but we on the Clemson campus especially remember his long tenure as a life trustee. We are delighted that his name can be perpetuated at Clemson in naming this dormitory in his honor."

Mr. Lever's service as life trustee covered 27 years, 1913 to 1940.

CLEMSON CONTINUES COLLEGE PROGRAM AT GREENVILLE TEC

In response to a request from the State Budget and Control Board, Clemson University will continue its freshman and sophomore college parallel program at Greenville Technical Education Center through the 1969 summer session and through the 1969-70 academic year. President Edwards said the State Budget and Control Board, in making its request, desired that the educational opportunities provided Greenville area residents be continued through Clemson pending adoption and implementation of a state-wide policy the General Assembly may establish for post-high school education.

CLEMSON UNIVERSITY AT SUMTER ACCREDITED

Clemson University at Sumter has been accredited by the Southern Association of Colleges and Schools. President Edwards said the association at its annual meeting in Atlanta accepted the self-study report from Clemson University at Sumter as having been successfully completed for accreditation as a center of Clemson University.

"The achievement is a tribute and reflection of the dedication that has gone into the establishment of Clemson University at Sumter," Dr. Edwards remarked.

ANIMAL SCIENCE

R. F. Wheeler (Hd) represented the American Society of Animal Science as the Official Delegate to the Inauguration of Dr. Milligan M. Nance, Jr. as President of South Carolina State College, Orangeburg, S. C., on Nov. 27.

CHEMISTRY

Members of the department presented the following papers at the Southeastern Regional Meeting of the American Chemical Society held at Florida State University, Dec. 4-7:

A. R. Pinder (F.H.H. Calhoun Prof), "Recent Synthetic Studies in the Eremophilane Sesquiterpene Group." This was an invited paper presented to the symposium on natural products.

A. R. Pinder (F.H.H. Calhoun Prof) and R. T. Wall (Postdoctoral Assoc), "A Biogenetic-Type Synthetic Approach to Eremophilanes."

R. R. Sobti (Postdoctoral Assoc) and Sukh Dev (National Chem Lab, Poona, India), "Genesis of Isologifolene."

M. L. Mole (Grad Stu) and J. W. Huffman (Prof), "Xanthorrhizine, a Novel Benzylisoquinoline Alkaloid."

A. R. Pinder (F.H.H. Calhoun Prof) and S. J. Price (Grad Stu), "The Non-volatile Constituent of Ottonia Vahlia (piper ovatum)."

C. E. Opliger (Grad Stu) and J. W. Huffman (Prof), "A Synthetic Approach to the Proaporphines."

J. W. Huffman (Prof) and J. H. Cecil (Grad Stu), "The Reaction of Diazomethane with 2-Acyl-4-hydroxy-2-quinolones."

CIVIL ENGINEERING

Dr. John D. Antrim (Assoc Prof) and Dr. Herbert W. Busching (Assoc Prof) presented their technical paper, "Asphalt Content Determination by the Ignition Method" at the annual meeting of the Highway Research Board of the National Research Council held in Washington, D. C., Jan. 13-17.

FERTILIZER INSPECTION AND ANALYSIS

B. D. Cloaninger (Dir) appeared on the program of the American Society of Agronomy, in New Orleans, on Nov. 14. He talked on the subject, "Specialty Fertilizer Labeling."

HISTORY

E. M. Lander, Jr. (Prof) has contributed the "Foreword" to the new edition of W. A. Schaper's Sectionalism and Representation in South Carolina (Da Cape Press, 1968); has contributed the section on "South Carolina History and Government" in the American Peoples Encyclopedia (1969 edition); has reviewed John H. Moore's Andrew Brown and Cypress Lumbering in the Old Southwest (LSU Press, 1967) for the Journal of Southern History (February, 1968); has reviewed Marvin R. Zahniser's Charles Cotesworth Pinckney: Founding Father (UNC Press, 1967) for the Journal of Southern History (May, 1968); and has reviewed Isaac D. Seabrook's Before and After; or the Relations of the Races at the South (Ed. by J. Hammond Moore, LSU Press, 1967) for the South Carolina Historical Magazine (January, 1968).

INDUSTRIAL MANAGEMENT

The Clemson University student chapter of the Society for the Advancement of Management was host at a joint meeting with the Greenville senior chapter of SAM at 7:30 p.m. on Jan. 13 in Sirrine Hall auditorium.

The meeting was designed to provide students with an opportunity to voice and defend their opinions relating to current practices of the business community.

MATHEMATICS

Andrew Sobczyk (S. Maner Martin Prof) was the invited lecturer for Mathematics Colloquia at four universities: Kansas State University, Manhattan, on Nov. 21; University of Missouri, Kansas City, on Nov. 22; Kent State University, Ohio, on Dec. 6; State University of New York at Buffalo, on Dec. 17. Also at the request of the Secretary of the American Mathematical Society, he was Chairman of the Analysis Section for the meeting of that Society at Clemson on Nov. 8-9.

GIFTS AND GRANTS

G. B. Savitsky (Assoc Prof in Chem) has been awarded a grant of \$18,000 by the National Science Foundation to continue a study of the analysis of complex proton magnetic resonance spectra.

N. P. Marullo (Assoc Prof in Chem) has been awarded a National Science Foundation Science Faculty Fellowship for study and research at Princeton and the University of California, Los Angeles, during the 15-month period beginning June 1969.

MINUTES OF THE NOVEMBER RESEARCH FACULTY COUNCIL MEETING

The Research Faculty Council convened its November session at 4:00 p.m., Nov. 19, in Room 28 Tillman Hall.

The Council voted in favor of a proposed recommendation for University-wide announcement of Ph.D. final examinations.

A report from the Personnel Relations Committee indicated that there is no university policy which protects a graduate student's major advisor from being removed from that position. It was the feeling of the Council that the guidelines to be followed in all cases should be based on established standards of the scientific community.

SYMPOSIUM ON USE OF CERAMICS IN SURGICAL IMPLANTS TO BE HELD HERE

Clemson University and the Medical College of South Carolina will conduct a symposium on the use of ceramics in surgical implants Jan. 31 and Feb. 1 at the Clemson House. The meeting is designed for physicians, scientists, and engineers engaged in the development, manufacturing and use of prosthetic devices. Seventeen papers will be presented concerning the advantages, uses and limitations of ceramic material for surgical implants from the clinical and scientific point of view.

CALENDAR OF CAMPUS EVENTS

Jan.	14	Tu	4:15 p.m.	Faculty Senate Meeting, Olin Hall Auditorium
Jan.	14	Tu	8:00 p.m.	Concert - Ferrante and Teicher - Fike Field House
Jan.	15	W	8:00 p.m.	Dr. John J. Pauson (Visiting Prof), Univ. of South Carolina, will present a public lecture in Brackett Hall Auditorium, sponsored by the department of social sciences and the department of elementary and secondary education.
Jan.	16	Th	8:00 p.m.	Basketball - Furman at Clemson
Jan.	18	Sat		Graduate Record Exam, Room 20, Tillman Hall
Jan.	21-23	Tu-Th		Religious Emphasis Week
Jan.	21	Tu	12:00 Noon-1:30 p.m.	Women of Teaching Faculty Luncheon, Clemson House

Jan.	21	Tu	4:00 p.m.	Biochemistry Seminar - Dr. Mary Ellen Jones, Department of Biochemistry, Univ. of North Carolina, "Bacterial Aspartate Transcarbamylases," Room 101, P&AS Building.
Jan.	23	Th	4:00 p.m.	Chemistry Seminar - Dr. J. F. Allen, Assoc. Prof. of Clemson Univ., "The Separation of Some Short-Lived Radioisotopes," Room 131, Brackett Hall.
Jan.	23	Th	7:30 p.m.	Religion Lecture - "The Morality of War and Peace" The Most Rev. James P. Shannon, Auxiliary Bishop for the Archdiocese of St. Paul and Minneapolis. Tillman Hall Auditorium.
Jan.	23	Th	8:00 p.m.	Basketball - Furman Univ. at Greenville, S. C.
Jan.	24-25	F-Sat		CDA Mid-Winter Dances
Jan.	25	Sat		Veterinary Aptitude Test, Room 20, Tillman Hall
Jan.	25	Sat	8:00 p.m.	Basketball - Virginia Tech at Blacksburg, Va.
Jan.	29	W	8:00 p.m.	Concert - Detroit Symphony - Fike Field House
Jan.	30	Th	3:00 p.m.	Gorden Tullock, Professor of Economics and Public Choice, Virginia Polytechnic Institute, will speak at the Department of Industrial Management and the Department of Economics graduate seminar in Sirrine Hall Auditorium. Subject: "A Theoretical Model Treating with the Market, Politics, Democracy, Despotism, and Crime."
Jan.	30	Th	4:00 p.m.	Chemistry Seminar - Dr. P. E. Sturrock, School of Chemistry, Georgia Institute of Technology, "Derivative Chronopotentiometry," Room 131, Brackett Hall.
Feb.	1	Sat	8:00 p.m.	Basketball - North Carolina State at Clemson
Feb.	1	Sat		Admission Test for Graduate Study in Business, Room 20, Tillman Hall
Feb.	3	M	9:00 a.m.	Educational Council Meeting
Feb.	4	Tu	6:30 p.m.	Sage Club, Clemson House
Feb.	4	Tu	8:00 p.m.	Concert - Janet Baker - Fike Field House



CLEMSON NEWSLETTER

INFORMATION FOR THE STAFF OF CLEMSON UNIVERSITY

Vol. 8 No. 11

CLEMSON UNIVERSITY LIBRARY
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FEB 19 1969

February 1, 1969

1968 ALUMNI LOYALTY FUND GRANTS

The 1968 Clemson Alumni Loyalty Fund exceeded by nearly \$26,000 any previous unrestricted gift income, and thus was able to add that amount to grants to the University. The Loyalty Fund total income was \$145,978.74, an amount that has been exceeded only three times since the Fund began in 1956 -- and each of those years was boosted by large non-recurring special gifts of \$103,000 in one instance, \$50,000 in another and \$15,000 in another. There was no such gift in 1968.

The 1968 Loyalty Fund also received its highest percentage of support from Clemson alumni who are University staff members -- 57 per cent of these alumni made gifts to the 1968 Fund.

The success of last year's Fund enabled an increase by three (from five to eight) the number of Alumni Professorships now sponsored by the Alumni Association.

The following grants were made from the unrestricted income of the Loyalty Fund: R. F. Poole Scholarships (\$15,000); Alumni Memorial Scholarships (\$1,200); Faculty Research and Development (\$4,000); Alumni Professorships (\$11,500); Graduate School (\$10,000); Student Activities (\$8,000); University Contingency (\$12,000); University Permanent Endowment (\$20,101.98); The Clemson World, alumni publication (\$11,086.33); and the Loyalty Fund Reserve (\$6,000). The Fund also paid the \$37,550.51 operating costs of the Alumni Association for 1968.

SYMPOSIUM ON USE OF CERAMICS IN SURGICAL IMPLANTS, CLEMSON HOUSE, JANUARY 31- FEBRUARY 1

Any faculty member wishing to attend any of the symposium lectures, please contact Prof. Robert Banister, Coordinator, Office of Industrial and Municipal Relations, College of Engineering, Room 109, Riggs Hall for a registrant's badge.

FRIDAY, JANUARY 31

9:20-10:00 Paper 1

"Biomaterials--The Case for Ceramics"
Dr. S. F. Hulbert, Clemson University
Clemson, South Carolina

10:00-10:40 Paper 2

"Orthopaedic Implants"
Dr. W. C. Allen, Biomechanics Laboratory
College of Medicine, University of Florida
Gainesville, Florida

SYMPOSIUM ON USE OF CERAMICS IN SURGICAL IMPLANTS, CLEMSON HOUSE, JANUARY 31-
FEBRUARY 1 (continued)

10:40-11:20 Paper 3

"Implant Acceptance in Body Tissue"

Dr. J. L. Dobson, Greenville Shriners' Hospital
for Crippled Children
Greenville, South Carolina

11:20-12:00 Paper 4

"Viscoelastic and Piezoelectric Properties
of Bone"

Dr. E. Korostoff, University of Pennsylvania
Philadelphia, Pennsylvania

1:30-2:10 Paper 5

"Cerosium"

Mr. G. Ross, Haeger Potteries
Dundee, Illinois

2:10-2:50 Paper 6 (a)

"Artificial Bones"

Mr. J. J. Klawitter, Clemson University
Clemson, South Carolina

Paper 6 (b)

"Direct Skeletal Attachment of Artificial Limb"

Dr. V. Mooney, Rancho Los Amigos Hospital
Downey, California

3:10-3:50 Paper 7

"Materials for Maxillofacial Applications"

Dr. C. R. Manning, Jr., North Carolina State University
Raleigh, North Carolina

3:50-4:30 Paper 8

"Research on Bioceramics"

Dr. J. D. Helmer, Battelle Memorial Institute
Columbus, Ohio

SATURDAY, FEBRUARY 1

9:00-9:40 Paper 9 (a)

"Cardiovascular Implants--State of the Art
and Potential for Bioceramics"

Dr. W. H. Lee, Medical College of South Carolina
Charleston, South Carolina

Paper 9 (b)

"In Vivo Testing of Ceramics in Cardiovascular
System"

Dr. P. Harston, Medication College of South Carolina
Charleston, South Carolina

SYMPOSIUM ON USE OF CERAMICS IN SURGICAL IMPLANTS, CLEMSON HOUSE, JANUARY 31-
FEBRUARY 1 (continued)

9:40-10:20 Paper 10

"Current Problems in General Surgery"

Dr. C. T. Fitts, Medical College of South Carolina
Charleston, South Carolina

10:40-11:20 Paper 11

"Potential Use of Ceramics in Otolaryngology"

Dr. J. H. Per-Lee, Emory University
Atlanta, Georgia

11:20-12:00 Paper 12

"Preimplantation Evaluation of Prosthetic Appliances"

Dr. W. B. Campbell, Ohio State University
Columbus, Ohio

1:30-2:10 Paper 13

"Problems Associated with the Use of Ceramics
in Surgery"

Dr. S. N. Levine, College of Engineering,
State University of New York at Stony Brook
Stony Brook, New York

2:10-2:50 Paper 14

"A Ceramic Application in Patient Care"

Mr. T. S. Hargest, Medical College of South Carolina
Charleston, South Carolina

3:10-3:50 Paper 15

"Implantation of Teeth"

Dr. M. Hodosh, Brown University
Providence, Rhode Island

3:50-4:30 Paper 16

"Fiber Reinforced Dental Composites"

Dr. E. P. Lautenschlager, Northwestern University
Chicago, Illinois

4:30-5:10 Paper 17

"High Strength Dental Materials"

Dr. F. A. Young, Clemson University
Clemson, South Carolina

GIFTS AND GRANTS

Dairy Science has been awarded a \$2,500 grant from the Tuco Products Company (a division of the Upjohn Company) for an investigation, under the direction of Dr. J. F. Dickey, of estrus synchronization.

Agriculture and Biological Sciences has been awarded a \$12,230 grant from the National Science Foundation to conduct, under the direction of Dr. N. D. Camper, a Student Science Training Program (pre-college) in the Biological Sciences.

Chemistry has been awarded an \$11,939 grant from the National Institutes of Health for the continuation, under the direction of Dr. J. W. Huffman, of an investigation dealing with the synthesis of iboga alkaloids.

Physics has been awarded a \$4,000 supplemental grant from the Atomic Energy Commission to continue an investigation, under the direction of Dr. R. L. Chaplin, of radiation effects in crystalline materials. The Atomic Energy Commission transferred title to equipment (Van de Graaff accelerator and accessories), valued at \$40,740 and used in Dr. Chaplin's research program, to the University.

Chemistry has received a \$22,140 research career development award grant from the National Institutes of Health for the continuation of Dr. J. W. Huffman's research program dealing with the preparation of physiologically active compounds.

ERM - COLLEGE OF ENGINEERING

The Educational Research and Methods Division of the American Society for Engineering Education has recently begun publication of a new magazine entitled ERM. Its purpose is to assist the engineering teacher to improve his instructional ability by keeping him aware of new ideas and approaches to teaching being tried at schools around the country. In its pages are found numerous articles on the latest developments in various fields such as programmed instruction, audio-visual aids, computer-aided instruction, learning objectives, audio-tutorial carrels, etc.

As a part of the continuing effort to keep the quality of its instruction at a high level, the College of Engineering has entered a subscription to ERM for each of its faculty members.

18TH ANNUAL PESTICIDE CHEMICALS SCHOOL

The dates have been announced for the 18th Annual Pesticide Chemicals School: March 4 and 5, 1969. The meetings, sponsored by the Departments of Entomology and Zoology and Botany and Bacteriology, will be held at the Clemson House and should be of interest to everyone interested in controlling insect pests.

SUMMARY OF THE MINUTES OF THE FACULTY SENATE, JANUARY 14, 1969

The following new senators have been elected with terms expiring as indicated: Paul K. Birkhead, Chemistry and Geology, 1970; Aileen S. Prevost, Nursing, 1972; Dorothy H. Davenport, Nursing, Fall, 1969. The resignation of C. O. Shuler, Industrial Management, and the appointment of Marshall S. Hahn, Industrial Education, as a temporary replacement during the spring semester for H. E. Morgan, Jr., was announced.

Kenneth N. Vickery, Dean of Admissions and Registration, addressed the Senate concerning various questions currently under study. Items discussed included scheduling and registration, the university calendar as compared with that of other institutions, the pass-fail grading system, and the removable F grade.

The appointment of E. B. Rogers and D. W. Lyons as Senate representatives on the Medical Service Liaison Committee was announced.

The Committee on Policy recommended that no action be taken on the proposed study of the procedures and policies concerning the granting of emeritus status at Clemson. A motion by S. M. Lukawecki, Chairman of the Committee on Policy, that the Senate support the proposal that the ROTC program at Clemson be voluntary, was passed by a vote of 21 to 10. This matter is also being considered by the Administration-Faculty-Student Council and the University Long Range Planning Committee. J. N. Thurston, Chairman of the President's Advisory Committee on Long Range Academic Planning, reported that a decision would be announced shortly.

A resolution presented by J. C. Mullins of the Welfare Committee providing that one or more designated dormitories be available for study occupancy continuously over a twelve-month period, including holidays, and that information as to which dormitories are to remain open should be disseminated to all incoming foreign students and new graduate students by the Housing Office was passed unanimously.

D. W. Lyons, Chairman of the Welfare Committee, announced that plans were being made to form a Faculty Ski Club. All interested persons were asked to contact him or Walton H. Owens in Social Science.

D. W. Bradbury, Senate representative on the University Parking and Traffic Committee, requested that Senate members be prepared to give their reaction at the next meeting on a proposed liberalization of regulations concerning student registration and operation of automobiles on the campus. Also distributed for later consideration was a resolution restricting some flexibilities in the current procedure in scheduling final examinations.

A resolution presented by J. C. Mullins permitting four credit hours for veterans with six months or more military service was to be referred to the University Curriculum Committee.

A Student Senate bill, with revisions by the Admissions and Scholarship Committee, involving the removal of the original grade in the computation of grade point ratios upon the completion of the course the second time, caused much discussion. The proposal was tabled.

ADMINISTRATION

C. B. Green (Asst Dean) and J. H. Butler (Asst Prof of Music Education) attended the annual meetings of the Association of College and University Concert Managers and the International Association of Concert Managers in New York, Dec. 15-21. Dean Green also attended the annual meeting of the Modern Language Association of America in New York, Dec. 26-29.

ANIMAL SCIENCE

R. F. Wheeler (Hd), R. L. Edwards (Assoc Prof), G. C. Skelley (Assoc Prof), and D. R. Lamond (Visiting Prof) presented research findings at the Annual Meeting of the South Carolina Cattlemen's Association which was held in Greenville on Dec. 4 and 5. L. F. Cato (Acting Ldr, Ext) and J. F. Wise (Ext Spec) participated in the Cattlemen's program.

D. L. Handlin (Asst Prof) and C. W. Ackerman (Ext Spec) attended the National Pork Industry Conference in Raleigh, N. C., Dec. 12-13. Prof. Handlin served as Secretary of the Confined Sow Housing Workshop and Mr. Ackerman served as Secretary for the Feeder Pigs Workshop.

D. R. Lamond (Visiting Prof) presented a seminar, Improving Reproduction in Domestic Animals as a Problem in Biology, at The Citadel, Charleston, S. C., on Nov. 26. On Oct. 18, Dr. Lamond presented a seminar at the University of Illinois on Environmental Factors Influencing Reproduction. He also published an article, The Australian Beef Cattle Industry, in the Livestock Breeder Journal.

ARCHITECTURE

Anders J. Kaufmann (Assoc Prof) presented a position paper and served as a consultant to the Committee on the Role of the Humanist in Higher Education at its meeting at the Quail Roost Conference Center, N. C., on Nov. 17. Prof. Kaufmann has also been appointed a Contributing Member of the Committee on Research in Architecture of the American Institute of Architects for 1969.

CHEMICAL ENGINEERING

D. F. Bruley (Asst Prof) gave a Technical Presentation, "Equations for Predicting Oxygen Transport In the Microcirculation," at a joint meeting of the Western North Carolina and Western South Carolina Chapters of AIChE, Nov. 21, Greenville, S. C. He also attended a meeting of the National Board of Directors of "Analog/Hybrid Computer Educational Users Group" (ACEUG) and the "Fall Joint Computer Conference" (FJCC), Dec. 8-12, San Francisco, Calif.

ELEMENTARY AND SECONDARY EDUCATION

L. Lawson Byrd (Asst Prof) is serving as an educational consultant to Anderson County District No. 2 Schools (Belton-Honea Path) during this academic year.

ENGINEERING MECHANICS

Walter E. Castro (Assoc Prof) attended the Analog Computer Basic Training Course held at Princeton, N. J., during the period Nov. 18-22.

ENGLISH

Richard J. Calhoun (Prof) is Assistant Editor of the new literary magazine, The South Carolina Review. The November, 1969 issue will be edited and published at Clemson.

ENTOMOLOGY AND ZOOLOGY

J. H. Cochran (Hd) and C. A. Thomas, Jr. (Assoc Ext Spec) attended the 1969 Beltwide Cotton-Production Mechanization Conference in New Orleans, La., Jan. 6-10.

George W. Folkerts (Asst Prof) and F. Lance Wallace (Inst) attended the National Meeting of the Entomological Society of America in Dallas, Tex., Nov. 28-Dec. 6. Dr. Folkerts participated in the organizational meeting of The Coleoptera Society.

Averett S. Tombes (Assoc Prof) attended the annual meeting of the American Society of Zoologists in Dallas, Tex., Dec. 26-31, which was held in conjunction with the annual AAAS meeting. He served as a chairman for one of the sessions on comparative physiology and presented a paper, co-authored with H. M. Langley (NDEA Fellow), entitled, "Influence of temperature and photoperiod on adult diapause in Hypera postica." Dr. Tombes represented the South Carolina Academy of Science as a delegate at the AAAS business meeting.

Richard F. Nash (Inst) visited the Florida Department of Agriculture, Gainesville, Fla., Dec. 16-18, for the purpose of receiving training from specialists of the Florida Department of Agriculture, Division of Plant Industry, in the mounting, identification and survey techniques of scale insects. A synoptic collection of scale insects valued at \$450 was given to the Department of Entomology and Zoology by the Florida Division of Plant Industry.

L. H. Senn (Asst State Ent), South Carolina State Crop Pest Commission, has completed all of his work for the Ph.D. degree at the University of Georgia. The degree will be awarded in May 1969.

T. E. Skelton has been appointed Assistant Professor of Entomology and Zoology and reported for work on Jan. 1. He has completed all his work for the Ph.D. degree at the University of Georgia. The degree will be awarded in May 1969.

The American Society of Agronomy is sponsoring the development of a soybean monograph, "Soybean Science and Technology." S. B. Turnipseed (Assoc Prof), Edisto Experiment Station, Blackville, S. C., has been asked to serve as the senior author of the chapter on "Insects."

ENVIRONMENTAL SYSTEMS ENGINEERING

J. F. Andrews (Hd) attended a meeting of the Board of Directors of the American Association of Professors in Sanitary Engineering in Washington, D. C., Dec. 15. On Dec. 16 the Board discussed water pollution control problems with Joe Moore, Commissioner of the Federal Water Pollution Control Administration.

W. M. McLellon (Assoc Prof) attended a meeting of the steering committee for the National Conference on wastewater treatment plant operator training. Dr. McLellon is co-chairman of the conference.

H. R. Bungay III (Prof) and Mrs. Bungay co-authored a review article "Microbial Interactions in Continuous Culture" published in Advances in Applied Microbiology.

INDUSTRIAL EDUCATION

Alfred F. Newton (Hd) presented a paper at the AVA Annual Convention held in Dallas, Tex., on Dec. 9. The presentation was entitled "A Comparison of the Various Aspects of Teacher Education for Personnel in Trade and Industrial Education."

J. Page Crouch (Asst Prof) gave a talk on the new Graphic Arts program being developed at Clemson University at the Southeastern Graphic Arts Exposition held in Atlanta, Ga., on Dec. 6 and 7.

INDUSTRIAL MANAGEMENT

Gayle D. Riggs (Asst Prof) received his Ph.D. degree in Economics from the University of Arkansas on Jan. 16.

Boyd J. Todd (Assoc Prof) has completed all of his requirements and will receive his Ph.D. degree in Economics from North Carolina State University.

Thomas D. Wallace, faculty member at North Carolina State University, will serve as a part-time visiting professor in Clemson University's department of Industrial Management during the current semester. Dr. Wallace, Professor of Statistics and Economics, is noted for his work in econometrics and has published extensively in scientific journals including the "Journal of the American Statistical Association" and "Operations Research."

Clinton Whitehurst (Hd) has announced that the Department of Industrial Management has initiated a special graduate-level course in the "Management of Human Resources" on Furman University Campus. The graduate course is held each Thursday night in the Greenville area to accommodate the growing need for graduate degree programs in this heavily industrial area. Dr. Robert L. Brown, noted consultant and visiting lecturer in Industrial Management at Clemson, will be the instructor.

J. M. Wannamaker (Assoc Prof) participated in orientation sessions at the Graduate School of Business Administration of the University of Virginia at Charlottesville on Dec. 12 and 13.

INTERDISCIPLINARY STUDIES IN ENGINEERING

S. F. Hulbert (Hd), J. J. Klawitter (Grad Stu), C. D. Talbert (Grad Stu), and C. T. Fitts (Asst Prof of Surgery), Medical College of South Carolina, presented the following papers:

"Design and Evaluation of Artificial Bone Segments," at the 21st Annual Conference on Engineering in Medicine and Biology, Houston, Tex., Nov. 18.

"Compatibility of Ceramics with the Skeleton System," at the ASTM Committee F-4 on Surgical Implant Materials Symposium on Ceramics and Composites, New Orleans, La., Dec. 5.

S. F. Hulbert (Hd) and G. Lane (U. S. Army Signal Corp at Fort Mammouth, New Jersey) are authors of the following article, "Use of Atomic Absorption Spectroscopy to Study the Kinetics of the Reaction between MgO and SiO_2 ." Transactions of the British Ceramic Society, Vol. 67, (9) pp. 391-395 (1968).

The following papers were published in the January 1969 issue of Orthopaedic Surgery Papers of the Duke Medical Center and Affiliated Hospitals:

C. D. Talbert (Grad Stu), S. F. Hulbert (Hd), and J. J. Klawitter (Grad Stu), "Materials of Construction for Orthopaedic Implants: A Review."

J. J. Klawitter (Grad Stu), S. F. Hulbert (Hd), C. D. Talbert (Grad Stu), C. T. Fitts (Asst Prof of Surgery), Medical College of South Carolina, F. H. Stelling (Dir of Orthopaedic Surgery), Greenville Shriners Hospital, and R. S. Mathews (Sr Res), Greenville Shriners Hospital, "Materials of Construction for Bone Gap Bridges."

James S. Wolf has joined the staff as an Associate Professor of Materials Engineering. Dr. Wolf has a B.S. in Physics from the Case Institute of Technology, and an M.S. in Metallurgical Engineering from the same institution. He received the Ph.D. degree with a major in Metallurgy and minors in Physics and Chemistry from the University of Florida. He came to Clemson University from the Lewis Research Center (NASA), Cleveland, Ohio.

Samuel F. Hulbert (Hd) and Franklin A. Young, Jr. (Asst Prof) have been awarded a research grant from the National Institute of Arthritis and Metabolic Diseases to work on the development of Artificial Bone Segments for Clinical Testing. The budget for the first year of the grant is \$66,031. C. T. Fitts (Asst Prof of Surgery), Medical College of South Carolina, F. H. Stelling (Dir of Orthopaedic Surgery), Greenville Shriners Hospital for Crippled Children, and R. S. Mathews (Sr Res in Orthopaedic Surgery), Greenville Shriners Hospital for Crippled Children, are collaborating in the research program with Dr. Hulbert and Dr. Young.

MATHEMATICS

James L. Flatt (Assoc Prof) has been notified by the National Science Foundation that he has been awarded a grant of \$51,486 to support a "1969 Summer Institute in Mathematics for Secondary School Teachers." Dr. Flatt will direct the institute of 40 participants for the period June 9 to Aug. 8.

MECHANICAL ENGINEERING

T. T. Yang (Assoc Prof) co-authored two papers which were presented at the ASME Winter Annual Meeting held in New York. The papers were entitled "A Mathematical Model for the Prediction of the Induced Flow in a Pulsejet Ejector with Experimental Verification" and "Pulsatile Flow Behavior in Elastic Systems Containing Wave Reflection Sites."

TEXTILE SCIENCE

Edward S. Olson (Assoc Prof) was selected as Chairman of the Flocked Fabrics Test Committee of the International AATCC. (Quarterly meetings are held in various points of the U. S. to establish testing procedures for the assessment of the properties of flocked fabrics.)

Frederick T. Simon (J. E. Sirrine Prof) recently authored an article entitled "Pigments for Vinyl Fabrics" which was published in American Ink Maker. This article was based on a similar presentation that Prof. Simon delivered at the Dry Color Manufacturers Association at the Princeton Club in New York City in October, 1968.

FORMER WOODROW WILSON FELLOWS TEACHING AT CLEMSON

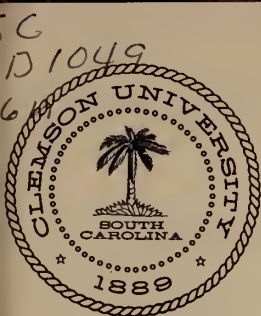
The latest edition of A Directory of Woodrow Wilson Fellows lists four former Fellows as being on the faculty of Clemson University. They are Robert L. Cross, Instructor in English; Charles A. Grubb, Instructor in History; Donald R. LaTorre, Assistant Professor of Mathematics; and Pinckney A. Steiner, Assistant Professor of Physics.

CALENDAR OF CAMPUS EVENTS

Feb.	1	Sat	8:00 p.m.	Basketball - North Carolina State at Clemson
Feb.	1	Sat		Admission Test for Graduate Study in Business, Room 20, Tillman Hall
Feb.	3	M	9:00 a.m.	Educational Council Meeting
Feb.	4	Tu	6:30 p.m.	Sage Club, Clemson House
Feb.	4	Tu	8:00 p.m.	Concert - Janet Baker - Fike Field House
Feb.	5	W	8:00 p.m.	Basketball - Duke at Clemson

Feb.	6	Th	8:00 p.m.	Graduate Wives Club - Guest speaker will be Mrs. Marion E. Scoular of Robinhood Wool Shop, "Points for Perfection in Knitting," in Y.M.C.A.
Feb.	7	F	8:00 p.m.	Basketball - Florida State at Clemson
Feb.	8	Sat	1:30 p.m.- 3:30 p.m.	Foreign Language Exams, Room E-208, Martin Bldg.
Feb.	10	M	8:00 p.m.	Basketball - South Carolina at Clemson
Feb.	11	Tu	4:15 p.m.	Faculty Senate Meeting, Olin Hall Auditorium
Feb.	13	Th	2:00 p.m.	Mr. Fred Hecht, Vice President, Sears, Roebuck and Co., Chicago, Illinois, will be the speaker for the School of Industrial Management and Textile Science Seminar in Sirrine Auditorium.
Feb.	13	Th	8:00 p.m.	Concert - Preservation Hall Jazz Band - Fike Field House
Feb.	14	F	8:00 p.m.	Basketball - North Carolina State at Charlotte
Feb.	14-15	F-Sat		North-South Classic at Charlotte
Feb.	15	Sat	8:00 p.m.	Basketball - University of North Carolina at Charlotte
Feb.	18	Tu	12:00 p.m.- 1:30 p.m.	Women of Teaching Faculty Luncheon, Clemson House
Feb.	18	Tu	7:30 p.m.	Religion Lecture, "Sex and Human Dignity" by Dr. Otto Piper, Professor of New Testament Literature and Exegesis, Princeton Theological Seminary, Tillman Hall
Feb.	18	Tu	8:00 p.m.	Basketball - Wake Forest at Winston-Salem





CLEMSON

NEWSLETTER

INFORMATION FOR THE STAFF OF CLEMSON UNIVERSITY

Vol. 8 No. 12

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February 15, 1969

FEB 19 1969

DR. OWINGS TO HEAD DEPARTMENT OF ENGLISH

Dr. Marvin A. Owings, Alumni Professor of English and University Marshall, has been named head of the Department of English. His appointment becomes effective July 1, 1969 when the present Department of English and Modern Languages will split into separate academic units. He will succeed Dr. H. M. Cox who will become dean of the new College of Liberal Arts on the same date. Dr. Cox has been head of the combined Department of English and Modern Languages since 1950.

Dr. Owings has been a member of the Clemson faculty for almost 25 years. He came to the University in 1946 as an associate professor of English and was named as one of the institution's seven Alumni Professors in 1966.

SUMMARY OF THE MINUTES OF THE FACULTY SENATE, JANUARY 28, 1969

After much discussion concerning a proposed change in regulations which would allow grades of C, D, or F previously earned in a course taken at Clemson to be disregarded in the computation of his grade-point ratio after a student had repeated the course, the Senate voted that it would not favor a change which would permit the exclusion of certain grades in the computation of the grade-point ratio. This proposal had originated in the Student Senate and had been modified by the Admissions and Scholarship Committee of the Faculty Senate.

Acting at the request of the University Parking and Traffic Control Committee, the Senate voted in order to voice its reaction to a proposal which would allow all Clemson students, regardless of class or academic status, to register and operate motor vehicles on the campus, and which would provide for the addition of adequate parking facilities. The Senate voted that it would present no objection to the proposal.

In order to prevent future conflicts between examination schedules and extra-curricular activities, the Senate passed a resolution stating that no student shall be given a special examination or have the date of his examination changed from the time originally set because of participation in any extra-curricular activity of any nature, regardless of sponsorship. This rule does not apply to changes authorized by the proper committee dealing with academic hardship cases.

It was announced that Boyd J. Todd, from the School of Industrial Management and Textile Science, will fill a vacancy in the Senate created by the resignation of C. O. Shuler.

MINUTES OF THE DECEMBER RESEARCH FACULTY COUNCIL MEETING

The Research Faculty Council convened its December session at 4:00 p.m., December 17, in Room 28 Tillman Hall.

The Research Faculty Council has recommended to the Graduate Council that the Master of Science and Doctor of Philosophy designations be reserved for degrees that require a thesis.

The Research Faculty Council also has recommended that the Graduate Council consider the advisability of publishing the time, date, place and title of all Ph.D. final oral exams.

A report from the Personnel Relations Committee indicated that problems involving graduate students and their faculty advisors should be handled at the department level.

A discussion occurred concerning the proper authority for signing M.S. and Ph.D. theses. The general consensus was that only the major committee chairman, who has directly supervised the research project, should certify the thesis.

Several questions were discussed concerning the responsibilities of the University and research faculty members for injuries incurred by employees, and accidents occurring during and after regular working hours. There was also some question concerning the feasibility of defining specific time limits for official duties of research faculty members. A council member was appointed to inquire into the definitions and responsibilities as they are currently written.

ALGERNON SYDNEY SULLIVAN AWARD

The Honors and Awards Committee invites all faculty and staff members to submit nominations for the non-student recipient of this year's Sullivan Award, which will be made on Honors and Awards Day, April 9, 1969. The award is described on page 86 of the 1968-1969 University catalog.

The nominations should be made by March 1 and sent directly to Dean C. B. Green, 28 Tillman Hall.

Non-student recipients of the Sullivan Award for the past ten years have been:

1959	Helen Coker
1960	C. C. Bennett
1961	J. D. Lane
1962	B. E. Goodale
1963	R. M. Cooper
1964	F. J. Jervay
1965	C. A. Arrington
1966	Virginia Earle Shanklin
1967	John Robert Roy Cooper
1968	James Francis Byrnes

ADMINISTRATION

L. G. Rich (Dean, Engr) delivered a paper entitled "Environmental Control Educational Programs Offered by Schools of Engineering" at an Environmental Control Seminar held in Atlanta on Jan. 20-22 and sponsored by the Western Electric Company for Engineering Deans from Southeastern Colleges and Universities.

CHEMISTRY

Several members of the department have recently presented lectures to Chemistry groups at colleges and universities in the region:

J. C. Fanning (Assoc Prof), Middle Tennessee State University, Murfreesboro, Tenn.; J. F. Geldard (Asst Prof), East Carolina University, Greenville, N. C.; J. F. Allen (Assoc Prof), Georgia Southern College, Statesboro, Ga.; and J. L. von Rosenberg, Jr., (Asst Prof), Emory University, Atlanta, Ga.

CIVIL ENGINEERING

Arnold E. Schwartz (Hd) was recently the guest of the National Sand and Gravel Association at their annual meeting Jan. 27 and 28 in New York City. Dr. Schwartz presented a discussion on the Research on Highway Paving Materials being done at Clemson.

Several members of the Civil Engineering Department attended the Highway Research Board Meeting in Washington, D. C. during the week of Jan. 13. Three papers were presented to this national group of highway and transportation engineers by J. D. Antrim (Assoc Prof), H. W. Busching (Assoc Prof), and a paper jointly authored by J. P. Rostron (Assoc Prof), A. E. Schwartz (Hd) and T. E. Gioiosa, a former graduate student in Civil Engineering.

The Clemson Student Chapter of the American Society of Civil Engineers will host the South Carolina Student Chapter Conference on Feb. 21-22. Attending will be students from Clemson, the University of South Carolina, and The Citadel. Guest speakers will be Major General T. J. Hayes (U. S. Army Corps of Engineers), P. Kesler (Lockheed of Georgia, Co.) and Dr. Warren Busse.

ENTOMOLOGY AND ZOOLOGY

J. H. Cochran (Hd) announced that his staff and entomology graduate students presented the following papers at the annual meeting of the Southeastern Branch of the Entomological Society of America in Biloxi, Miss., Jan. 28-30.:

T. E. Skelton (Asst Prof), "Effects of Tapa Upon Flight and Respiration of Houseflies, Musca domestica L."

ENTOMOLOGY AND ZOOLOGY (continued)

W. W. Gregory, Jr. (Grad Res Asst) and (J. K. Reed, Prof), "Endrin Accumulation in The Bobwhite Quail, Colinus virginianus virginianus L., From Natural Food Sources."

L. H. Senn (Asst State Ent), "Feeding and Attractant Studies on Adult White-Fringed Beetles."

E. W. King (Prof), "Determination of Optimum Rainfall Conditions for Emergence of The Carrot Beetle, Bothynus gibbosus (DeGeer)."

Richard C. Fox (Prof) presented the paper prepared by Allan T. Bullard (Grad Res Asst) and himself on "Field Observations on Adult Activity and Emergence of The Pitch-eating Weevil, Pachylobius picivorus Germar."

J. A. DuRant (Asst Prof), "Seasonal History of The European Corn Borer at Florence, South Carolina."

Howard R. Harris (Grad Res Asst) and (Richard C. Fox, Prof), "A Distributional Study of The Rhyacionia Group (Lepidoptera: Olethreutidae) of Pine Tip Moths in South Carolina."

S. B. Hays (Assoc Prof), "Diapause in First and Second Generations of The Plum Curculio and in Certain Crosses With A Laboratory Strain."

Paul H. Carlson (Grad Stud) and (Richard C. Fox, Prof), "A Study of Resident Mayfly Species From Wildcat Creek, Pickens County, South Carolina."

T. R. Adkins, Jr. (Prof) was the invitational speaker and also served as moderator of the session on "A Glimpse Behind The Iron Curtain" at the Southeastern Branch ESA Meetings in Biloxi, Miss. on Jan. 29. Dr. Adkins attended the 13th International Congress of Entomology in Moscow, Russia during the summer of 1968.

ENVIRONMENTAL SYSTEMS ENGINEERING

W. M. McLellon (Assoc Prof) presented a seminar at Hartford Graduate Center, Rensselaer Polytechnic Institute, Hartford, Conn., on Jan. 16 entitled "Removal of Radionuclides from Water Using Hydrous Ferric Oxide." Dr. McLellon also presented a paper at the Midyear Topical Symposium, Health Physics Society, Los Angeles, Jan. 30, entitled "Health Physics Practices in Student Laboratory and Research Projects."

MATHEMATICS

B. J. Prochaska (Asst Prof) presented a paper entitled, "Exponentially Weighted Moving Averages" at the regular monthly meeting of the Palmetto Section of the American Society for Quality Control on Jan. 21 in Greenville.

MATHEMATICS (continued)

The recent meetings of the American Mathematical Society held in New Orleans from Jan. 23-26 were attended by members of the Department of Mathematics. Those presenting papers were as follows:

Andrew Sobczyk (Samuel Maner Martin Prof) a paper written jointly with Prof. Ray Keown of the University of Arkansas entitled, "Isometries of Finite Dimensional Banach Spaces." Prof. Sobczyk also chaired the session on Friday afternoon on Topological and Algebraic Analysis.

W. R. Hare, Jr. (Assoc Prof) a paper written jointly with Mrs. Renu Laskar (Assoc Prof) entitled, "The Color Numbers of Certain Graphs."

John D. Fulton (Asst Prof), "Characterization and Enumeration of Linear Classes of Involutions over a Finite Field."

John K. Luedeman (Asst Prof), "On the Embedding of Topological Rings."

Anil K. Bose (Asst Prof), "A Poisson's Integral Formula for Elliptic Equations with Constant Coefficients."

Harold B. Reiter (Principal Grad Asst), "Topologies with Compact Subtopologies."

PHYSICS

Frederick J. Keller (Asst Prof) gave a seminar entitled "Radiation Damage Mechanisms in Alkali Halides" at the Physical Sciences Laboratory Redstone Arsenal, Huntsville, Ala. on Jan. 23.

RESEARCH COORDINATING UNIT

John H. Rodgers (Dir) recently completed a week-long training session at Ohio State University in research management.

Robert H. White (Assoc Prof) has recently initiated a Selective Dissemination of Information program to supply selected abstracts of information from computerized information systems for vocational education personnel throughout the state. With this program conducted by the Research Coordinating Unit, South Carolina is the first state in the nation to utilize fully this approach of helping vocational educators keep abreast of new developments in education.

Microfiche will be used to supply readers with the full text of materials announced in the form of abstracts. Selected abstracts are designated for one or more of over 50 specific audience groups, and when a reader encounters an item of interest, duplicate microfiche of the original material can be supplied by the RCU within 48 hours.

RESEARCH COORDINATING UNIT (continued)

The primary information systems being utilized are Defense Documentation Center (DDC) and Education Resources Information Center (ERIC). The RCU is a qualified user of DDC and thus has access to that system's microfiche. Through cooperation of the Robert Muldrow Cooper Library, complete files of ERIC microfiche are available and microfiche of any specified document can immediately be duplicated for use. All vocational education personnel throughout South Carolina will have access to the DDC and ERIC information systems.

SIXTH PULPWOOD HARVESTING SHORT COURSE COMPLETED

The Department of Forestry and the American Pulpwood Association jointly sponsored the sixth pulpwood harvesting short course just concluded at Clemson. The 25 students came from 10 states and represented graduates from some 14 different colleges and universities. Clemson University staff members who led lecture or laboratory sessions include N. B. Goebel, course coordinator, M. H. Bruner, L. D. Reamer, and W. A. Shain from the Department of Forestry, T. H. Garner and B. K. Webb from the Department of Agricultural Engineering, and L. H. Davis from the Department of Agricultural Education. Arrangements are being made for the seventh such short course at Clemson in May. The objective of these short courses is to teach industrial foresters the knowledge and skills required to manage a modern mechanized harvesting operation.

SOUTH CAROLINA ACADEMY OF SCIENCE TO MEET AT CLEMSON

The 42nd annual meeting of the South Carolina Academy of Science will be held at Clemson University on April 25-26, 1969. Dr. T. R. Adkins of Clemson is President-Elect of this group and Chairman of the Program Committee.

LSU PRESS TO PUBLISH CLEMSON AUTHORS

Announced for publication in March, 1969, by the Louisiana State University Press is a book entitled The Textile Industry in Antebellum South Carolina by Ernest M. Lander, Jr., Professor of History at Clemson University.

Also projected for publication in April is A Bibliographical Guide to the Study of Southern Literature in which Claud B. Green, Assistant Dean of the University, and Richard J. Calhoun, Professor of English, have compiled two of the general checklists.

SKI CLUB DESIRED

Several members of the University community are interested in forming a ski club. In addition to the fellowship available through the club, it is possible for members of organized clubs to obtain some price discounts and special privileges at the ski slopes. Interested persons should contact Prof. Walton Owens, Social Sciences Department, Ext. 478 or 479.

STUDENT SCIENCE TRAINING PROGRAM

The National Science Foundation has approved a grant in the amount of \$12,230 for a Student Science Training Program (Pre-College) in the biological sciences. The sixth such program will be of seven weeks in length beginning June 8 and ending July 26. The program is restricted to eleventh grade only and will have thirty-two participants. Applications and brochures are available from the Botany and Bacteriology Department.

N. Dwight Camper, Director of the Student Science Training Program, attended a meeting of the Directors of forty-seven other SST Programs from across the country in Washington, D. C., Jan. 24 and 25, and served on a panel which discussed various problems of SSTP and possible solutions.

GIFTS AND GRANTS

FMC Foundation, \$2,000 to the Department of Chemistry and Geology, toward the purchase of a spectrophotometer, primarily for support of the research in inorganic chemistry by J. C. Fanning (Assoc Prof in Chemistry).

The Mechanical Engineering Department has been awarded a Shell Companies Foundation grant in the amount of \$5,000 for the 1969-1970 academic year and a DuPont Company's Aid-to-Education Program grant in the amount of \$2,500 for 1969.

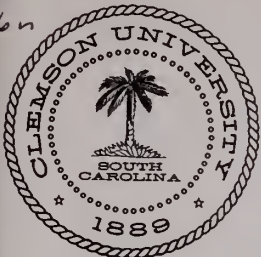
COMMUNICATIONS CENTER

Harry Durham (Dir) will be a featured speaker at the Southeastern Professional Photographers Association's Industrial Day Program in Atlanta, Ga., Feb. 15. He will speak about university photography and show slides of Clemson's photographic operations.

CALENDAR OF CAMPUS EVENTS

Feb.	14	F	8:00 p.m.	Basketball - N. C. State at Charlotte, N. C. (North-South Classic).
Feb.	15	Sat	8:00 p.m.	Basketball - UNC at Charlotte, N. C. (North-South Classic).
Feb.	17	M	4:00 p.m.	825 Agronomy Seminar Program - John C. French, "Plant Systemic Insecticides," Room A-203, P&AS Bldg.
Feb.	17	M	7:00 p.m.	Foreign Language Film Series - THE FORTY-FIRST (Color) (Sorok Perryi) Russian 1956. Award for Best Scenario, Cannes Festival 1957. Civil Engineering Aud.
Feb.	17	M	8:00 p.m.	Geology Lecture - Dr. Donald Secor, Department of Geology, University of South Carolina and American Geological Institute Lecturer, "Present Research Directed Toward Prediction and Control of Earthquakes," Room 131, Brackett Hall.
Feb.	18	Tu	12:00 Noon-1:30 p.m.	Women of Teaching Faculty Luncheon, Clemson House
Feb.	18	Tu	7:30 p.m.	Religion Lecture - "Sex and Human Dignity" by Dr. Otto Piper, Professor of New Testament Literature and Exegesis, Princeton Theological Seminary. Tillman Hall Auditorium.
Feb.	18	Tu	8:00 p.m.	Basketball - Wake Forest at Winston-Salem, N. C.
Feb.	18	Tu	8:00 a.m.	Geology Lecture - Dr. Donald Secor, Department of Geology, University of South Carolina and American Geological Institute Lecturer, "Application of Rock Mechanics Research to Some Fundamental Geologic Problems," Room 235, Brackett Hall.
Feb.	20-22	Th-Sat	8:00 p.m.	Clemson Little Theatre Production - "The Little Foxes," Food Industries Aud.
Feb.	20	Th	3:00 p.m.	Graduate Seminar - Dennis E. Grawoig, Chairman, Department of Quantitative Methods, Georgia State College, will be the speaker for the Dept. of Industrial Management in Sirrine Aud. Subject: "Quantitative Applications in Accounting."
Feb.	20	Th	4:00 p.m.	Chemistry Seminar - Dr. M. W. Wall, Research Triangle Institute, "The Chemistry and Anti-Tumor Activity of Camptothecin." Room 131, Brackett Hall.

Feb.	22	Sat	2:00 p.m.	Basketball - Maryland at Clemson (Regional TV) (Dedication of J. C. Littlejohn Coliseum)
Feb.	24	M	4:00 p.m.	825 Agronomy Seminar Program - Dr. Clifford N. Nolan, "Extension Weed Control Program," Room A-203, P&AS Bldg.
Feb.	27	Th	8:00 p.m.	Basketball - Wake Forest at Clemson
Feb.	28	F	9:00 p.m.- 1:00 a.m.	Military Ball
Mar.	3	M	9:00 a.m.	Educational Council Meeting
Mar.	3	M	4:00 p.m.	825 Agronomy Seminar Program - Shashi M. Rishi "Nuclear Energy: Hazards and Use in Agriculture," Room A-203, P&AS Bldg.
Mar.	3	M	7:00 p.m.	Foreign Language Film Series - THE BROKEN JUG (Der Zerbrochene Krug) German--probably one of the best comedies in German literature. Written in 1806 by Heinrich von Kleist, it has lost none of its charm and freshness in this film version. Civil Engineering Aud.
Mar.	4	Tu	6:30 p.m.	Sage Club, Clemson House



CLEMSON

NEWSLETTER

INFORMATION FOR THE STAFF OF CLEMSON UNIVERSITY

Vol. 8 No. 13

CLEMSON UNIVERSITY LIBRARY
SOUTH CAROLINA ROOM

MAR 3
1969

March 1, 1969



J. C. Littlejohn Coliseum, a giant among other buildings on campus, was dedicated Feb. 22 to a devoted Clemson son who stood tall among men. Before the eyes of a regional television audience and thousands of fans attending the Clemson-Maryland basketball game, President Robert C. Edwards dedicated the \$3.6-million structure to the service of the University and to the memory of James Corcoran Littlejohn, who held numerous important positions during almost 50 years of service to Clemson. Shown with a bust of their father are Mr. Littlejohn's three children (l-r): Samuel M. Littlejohn of Charlotte, N. C., Col. James P. Littlejohn of Battle Creek, Mich., and Miss Mary Katherine Littlejohn of Staten Island, N. Y., along with President Edwards. Many members of the Littlejohn family were present as well as their friends and other guests.

ALUMNI PROFESSORSHIP PROGRAM

Alumni Association grants to Alumni Professorship program in January will increase the number of Alumni Professors from the current five to eight. As always, alumni grants that are made in January (from the Alumni Fund of the year before) are made available to the University with the beginning of the University's next fiscal year on July 1. The new alumni professors will be announced prior to the first of July. The current Alumni Professors are Dr. Harold Coledge (Architecture), Dr. Hugh Macaulay (Economics), Dr. Marvin Owings (English), Dr. James Stepp (Agricultural Economics) and Dr. James Thurston (Electrical Engineering).

CLEMSON FOUNDATION PASSES \$1,000,000

If the first million dollars is the toughest, then the Clemson University Foundation passed a major hurdle in 1968. On December 31, 1968 the Foundation's assets had reached the \$1,027,898.17 mark (book value). The Clemson Foundation was established in 1933. Thus, the acquiring of the first million required 35 years. The Foundation's assets have been increased by \$637,129.54 in the last decade. The Permanent Endowment Fund of the Foundation is nearing the 1-1/2 million mark. It now stands at \$472,031.33.

DR. HAROLD N. COLEDGE, JR., TO BECOME UNIVERSITY MARSHAL

On July 1, 1969, Dr. Harold N. Coledge, Jr., Alumni Professor of Architecture, will become University Marshal for a three-year term ending on July 1, 1972. Dr. Coledge will succeed Dr. M. A. Owings, who has been University Marshal since the position was first established in November, 1961.

Dr. Coledge holds the Bachelor of Science and Bachelor of Architecture degrees from Harvard University. He received the Master of Arts and the Doctor of Philosophy degrees from the University of Pennsylvania. Joining the Clemson University faculty in 1957, Dr. Coledge was appointed Alumni Professor of Architecture on November 1, 1965. During the academic year, 1967-1968, he was on sabbatical leave and was in residence at Duke University as a Humanities Fellow in the Cooperative Program in the Humanities sponsored by Duke University and the University of North Carolina.

As University Marshal, Dr. Coledge will assist with the planning and supervising of all formal University Convocations and other ceremonial occasions at the University. In his position as University Marshal he will report directly to the Assistant Dean of the University.

RECORD NUMBER OF DEGREES AWARDED IN 1968

At its three graduation ceremonies in 1968, the University awarded 1,036 degrees, the most in one year in Clemson's history. Included in the total were 25 associate of arts degrees, 787 bachelor's degrees, 189 Master's degrees, and 35 PHD degrees. A breakdown, by major courses, follows:

DEGREES AWARDED IN 1968Associate Degrees Awarded in 1968

College of Arts and Sciences-----	25
Nursing-----	25
Total Associate Degrees Awarded in 1968-----	25

Bachelors' Degrees Awarded in 1968

College of Agriculture and Biological Sciences-----	99
Agricultural Economics-----	12
Agronomy-----	7
Animal Science-----	14
Biology-----	35
Dairy Science-----	3
Entomology-----	1
Food Science-----	3
Forestry-----	15
Horticulture-----	8
Poultry Science-----	1
School of Architecture-----	39
Architecture-----	27
Building Construction-----	6
Pre-Architecture-----	6
College of Arts and Sciences-----	199
Arts and Sciences-----	97
Chemistry-----	6
Geology-----	5
Mathematics-----	26
Medical Technology-----	7
Physics-----	6
Pre-Medicine-----	52
School of Education-----	99
Agricultural Education-----	18
Elementary Education-----	13
Industrial Education-----	19
Recreation and Park Administration-----	21
Science Teaching-----	10
Secondary Education-----	18

DEGREES AWARDED IN 1968 (Continued)Bachelors' Degrees Awarded in 1968 (Continued)

College of Engineering-----	178
Agricultural Engineering-----	2
Ceramic Engineering-----	21
Chemical Engineering-----	20
Civil Engineering-----	41
Electrical Engineering-----	43
Industrial Engineering-----	10
Mechanical Engineering-----	37
Metallurgical Engineering-----	4
School of Industrial Management and Textile Science-----	173
Arts and Sciences-----	65
Industrial Management-----	85
Textile Chemistry-----	3
Textile Management-----	6
Textiles-----	13
Textile Science -----	1
Total Bachelors' Degrees Awarded in 1968-----	787

Masters' Degrees Awarded in 1968

College of Agriculture and Biological Sciences-----	52
Agricultural Economics-----	8
Agronomy-----	4
Animal Science-----	3
Botany-----	1
Dairy Science-----	3
Entomology-----	9
Forestry-----	3
Horticulture-----	7
Microbiology-----	2
Plant Pathology-----	2
Zoology-----	10
School of Architecture-----	4
Architecture-----	4
College of Arts and Sciences-----	35
Chemistry-----	7
English-----	6
History-----	2
Mathematics-----	15
Physics-----	5

DEGREES AWARDED IN 1968 (Continued)Masters' Degrees Awarded in 1968 (Continued)

School of Education-----	29
Agricultural Education-----	2
Education-----	20
Industrial Education-----	7
College of Engineering-----	52
Agricultural Engineering-----	4
Bioengineering-----	1
Ceramic Engineering-----	6
Chemical Engineering-----	13
Civil Engineering-----	10
Electrical Engineering-----	4
Engineering Mechanics-----	1
Environmental Systems Engineering-----	7
Mechanical Engineering-----	5
Water Resources Engineering-----	1
School of Industrial Management and Textile Science-----	17
Economics-----	1
Industrial Management-----	12
Textile Chemistry-----	3
Textiles-----	1
Total Masters' Degrees Awarded in 1968-----	189

Doctors' Degrees Awarded in 1968

College of Agriculture and Biological Sciences-----	13
Agricultural Economics-----	2
Agronomy-----	2
Animal Physiology-----	1
Entomology-----	4
Nutrition-----	2
Plant Pathology-----	1
Zoology-----	1
College of Arts and Sciences-----	16
Chemistry-----	7
Mathematics-----	3
Physics-----	6
College of Engineering-----	5
Bioengineering-----	2
Chemical Engineering-----	1
Electrical Engineering-----	1
Mechanical Engineering-----	1

DEGREES AWARDED IN 1968 (Continued)Doctors' Degrees Awarded in 1968 (Continued)

School of Industrial Management and Textile Science----- 1

Engineering Management----- 1

Total Doctors' Degrees Awarded in 1968----- 35

Total Number Degrees Awarded in 1968----- 1,036

ITEM FROM THE MINUTES OF THE FACULTY SENATE, FEBRUARY 11, 1969

J. K. Reed, Chairman of the Admissions and Scholarship Committee, presented a resolution which had been passed by the Student Senate and revised by the committee establishing a pass-fail grading system for certain selected courses at Clemson. The revised plan restricted the system to the junior-senior level, to one course per semester per student, and to courses not in the student's major field or in the general educational requirements. The provision was also made that the grade of C must be earned in order to receive the "pass" grade. After much discussion, ranging from the inclusion of courses in the student's minor field of concentration as an exception to the general merits of the system in regard to whether or not it actually encouraged scholarship on the part of students, a substitute motion was made requesting that the Senate be polled in order to get approval or disapproval of the principle of a pass-fail system. After the substitute motion was passed, in favor of the pass-fail system, a motion to table the original motion was carried.

MILITARY BANQUET AND BALL, MARCH 7

Lieutenant General John J. Tolson III, Commanding General, XVIII Airborne Corps and Fort Bragg will be the guest speaker for the Annual Military Banquet and Ball at Clemson University. The Banquet will be held in the dining hall and immediately following it the Ball will be held in Fike Field House with music provided by the Third U. S. Army Band. This annual event is sponsored by Clemson's Company K-7 of the National Society of Scabbard and Blade.

DEAN MAYER TO LECTURE ON "LIBERALIZING THE LIBERAL ARTS"

Dean John Mayer of Brock University, St. Catherines, Ontario, will give a special lecture on "Liberalizing the Liberal Arts" on March 10 at 8:15 p.m. in Brackett Hall auditorium. He is a native of Hungary, and was educated in Hungary, France, England, Canada, and the United States. His lecture at Clemson is being sponsored by the Department of English and Modern Languages, the Department of Social Sciences, and the Students' Speaker Bureau.

COUNSELING CENTER

Dr. Virginia Hardie (Dir) has been appointed a member of the executive board of the South Carolina Mental Health Association. She is currently president of the Pickens County Mental Health Association. Dr. Hardie also presented an evaluation research study of the Counseling Service of Clemson University at the Southeastern Psychological Association meeting in New Orleans, La., Feb. 27.

GIFTS AND GRANTS

The Coastal Plains Regional Commission, \$1,400.00 to the Department of Agricultural Economics for evaluation of potential of Coastal Plains Region for interregional competition in the seafood market.

General Kinetics, Inc., \$3,000.00 to the Department of Agricultural Engineering for development of mechanical tomato harvester.

South Carolina Port Authority, \$1,200.00 to the Department of Agricultural Economics for preparation and publication of a revised international trade directory for South Carolina.

Tuco Products, Division of UpJohn Company, \$2,500.00 to the Department of Dairy Science for research on estrus synchronization in dairy heifers and lactating cows using melengestrol acetate (MGA).

Mobil Chemical Company, \$500.00 to the Department of Botany and Bacteriology for investing of experimental nematocides for cucumber and tomato.

Gerber Products, \$1,500.00 to Horticulture (GIFT) for pear research.

Cotton Producers Institute, \$35,400.00 to the Department of Agricultural Engineering for reduction of carrier and technical rates in application of soil. Incorporated herbicides through low volume application and increased incorporation uniformity.

A \$2,500.00 unrestricted grant to the School of Industrial Management and Textile Science from Dow-Badische Corporation of Williamsburg, Virginia.

A \$5,000.00 grant from the Gregg-Graniteville Foundation of Greenville, S. C. This grant is a renewal of the Graniteville Fellowship in Textile Science.

A \$1,000.00 grant received from Whitinsville Spinning Ring Company of Whitinsville, Massachusetts. This annual gift in memory of Stuart F. Brown is for support of the Graduate Program in the School of Industrial Management and Textile Science.

SEMINAR, LECTURE SCHEDULED MARCH 12

On Wednesday, March 12, the College of Agriculture and Biological Sciences and the University Lecture Series will present Dr. Frank A. Brown, Jr., Morrison Professor of Biology, Northwestern University, Evanston, Ill., in a seminar: "Responses Of Organisms To The Earth's Electromagnetic Forces," and an evening lecture: "Clocks That Time Life." The 4 p.m. seminar and the 8 p.m. lecture will be held in the auditorium of the Plant and Animal Science Building.

ADMINISTRATION

Claud B. Green (Asst Dean) attended a meeting at the University of Kentucky on Feb. 13-14 to consider a proposal for the formation of an Appalachian Research Institute.

Geraldine Labecki (Dean, Nurs) has been appointed to the Council on Practice of the South Carolina Nurses Association. Her term will expire in 1972.

Linvil G. Rich (Dean, Engr) participated in site visits for the Federal Water Pollution Control Administration at Lehigh University, Ohio State, and the University of Toledo on Feb. 3, 4, and 5, and at the University of Virginia on Feb. 14. Dean Rich also participated in ECPD inspection of the engineering curriculum at the University of Texas, Austin, Tex. on Feb. 10 and 11.

Wallace D. Trevillian (Dean, IM & TS) was guest speaker at the Southern Textile Association's Seminar on "Supervisory Communication and Motivation" on Feb. 10 at the Clemson House.

AGRICULTURAL ECONOMICS

W. J. Lanham (Hd) presented a discussion paper, "Rural Economic Development Research--A Challenge to and Responsibility of State Universities," at the Southern Agricultural Economics Association, Mobile, Ala., Feb. 3-5. Dr. Lanham was elected Vice President for 1969-70 at the meeting.

J. M. Stepp (Alumni Prof) and J. C. Hite (Asst Prof) attended the annual Water Resources Research Conference in Washington, D. C., Jan. 28-29. Dr. Stepp and Dr. Hite also conducted a session entitled, "The Economic Impact of Water Resource Projects on Local Areas," at the workshop for Soil Conservation Service economists in Columbia, Feb. 25.

ANIMAL SCIENCE

The following papers were presented at the Southern Section of the American Society of Animal Science, Feb. 3-5, Mobile, Ala. The person reading the paper has an asterisk by his name.

"The Influence of Dams Weight on Calf Performance," W. C. Godley* (Prof) and C. O. Tennant, Jr. (Grad Stud).

"The Fine Structure of Bovine Luteal Cells," Thomas M. Leland* (Grad Stud), J. F. Dickey (Asst Prof), and J. R. Hill, Jr. (Assoc Prof).

"Confinement and Ration Effect on Ulcers in Swine," D. L. Handlin (Asst Prof), L. Crook (Asst Prof), G. C. Skelley (Assoc Prof), D. A. Ballington* (Grad Stud), and W. E. Johnston (Asst Prof).

ANIMAL SCIENCE (Continued)

"Nutrition Effects on Fertilization in the Ewe," J. R. Hill, Jr. (Assoc Prof), D. R. Lamond (Visiting Prof), and W. C. Godley* (Prof).

"Urea, Silage and Pelleted Grass in Steer Rations," R. L. Edwards* (Assoc Prof) and G. C. Skelley (Assoc Prof).

CERAMIC ENGINEERING

G. C. Robinson (Hd) was an invited lecturer to a convocation of the Canadian Ceramic Society during their annual meeting in Montreal, Canada, Feb. 17.

DAIRY SCIENCE

J. J. Janzen (Prof) presented two papers entitled "Comparison of Slide Preparation Techniques in the Direct Microscopic Estimation of Leucocytes in Milk," and "The Effect of Age and Temperature on the Leucocyte Concentration in Milk," at the annual meeting of the Southern Division of the American Dairy Science Association on Feb. 3-5, at Mobile, Ala.

J. T. Lazar, Jr. (Prof) has completed the year's term as President of the Southern Division of the American Dairy Science Association. He presented a paper entitled "A Study to Improve Methods of Materials Handling in Milk Distribution Branches," at the annual meeting on Feb. 3-5, at Mobile, Ala.

ENTOMOLOGY AND ZOOLOGY

At the Southeastern Branch Meeting of The Entomological Society of America in Biloxi, Miss. during late January, T. R. Adkins, Jr. (Prof) was elected to the office of Member at Large of the Southeastern Branch for the year 1969.

On Jan. 31 R. E. Ware (Assoc Prof) spoke on "The Importance of Conserving the Bluebird in This Area" at the second annual meeting of the Anderson County Council of Camp Fire Girls, Inc. held at the Holiday Inn in Anderson.

HORTICULTURE

J. P. Fulmer (Asst Prof) conducted a short course for nurserymen at Clemson Jan. 19-21. He was presented An Award of Merit "for the significant contribution of an outstanding nature to ornamental horticulture research and the nursery industry" by Mr. Arthur Lancaster, President of Southern Nurserymen's Association.

J. A. Martin (Assoc Prof) attended the National Sweet Potato Collaborators Meeting in Mobile, Ala., on Feb. 1 and 2. Prof. Martin discussed his new breeding methods for the breeding and development of desirable fresh market and processing-type sweet potatoes. He also attended the Southern Region meeting of the American Society for Horticultural Science.

HORTICULTURE (Continued)

E. T. Sims, Jr. (Assoc Prof) and Carl E. Gambrell, Jr. (Asst Prof) attended the annual meeting of the Southern Region, American Society for Horticultural Science in Mobile, Ala., Feb. 2-5. Dr. Sims presented a paper entitled "Effects Of 2-Chloroethane Phosphonic Acid (Ethrel) And 3-Chlorophenoxy-Alpha-Propionamide (3-CPA) On The Maturation, Ripening And Quality Of Peaches." Prof. Gambrell presented two papers, co-authored with G. E. Stembridge and E. T. Sims, Jr., entitled "Some Effects Of 2-Chloroethane Phosphonic Acid (Ethrel) On Peaches" and "The Influence Of Concentration, Time Of Application, And Repeat Applications Of 3-Chlorophenoxy-Alpha-Propionamide (3-CPA) On Thinning Of Three Difficult To Chemically Thin Peach Varieties."

INDUSTRIAL MANAGEMENT

Clinton H. Whitehurst (Hd) addressed the "Low Country" chapter of the American Institute of Industrial Engineers in Charleston, S. C. on Feb. 6.

Charles A. Burden (Asst Prof) served as Program Director for the Southern Textile Association's Seminar on "Supervisory Communication and Motivation" held on Feb. 10 at the Clemson House.

T. H. Gunter (Asst Prof) was featured speaker at the first 1969 meeting of the Greenville Sales and Marketing Executives Club held at the Greenville Country Club on Jan. 27. The title of his presentation was, "How a Love-In Can Sell More of Your Product or Empathic Training Key to Bigger, Better Profit."

C. O. Shuler (Assoc Prof) was author of an article published in Hospitals, J.A.H.A. on "Factors in Minimum Wage Law."

INTERDISCIPLINARY STUDIES IN ENGINEERING

Samuel F. Hulbert (Hd) directed a 2-day symposium on "Use of Ceramics In Surgical Implants" held at Clemson University on Jan. 31-Feb. 1. Drs. F. A. Young and J. S. Wolf, DIS; Drs. C. T. Fitts and W. H. Lee, Medical College of South Carolina were session chairmen. Seventeen papers were presented to approximately 100 participants representing 19 states and District of Columbia. Leading all states was Ohio with 14 participants, followed by New York with 10, California with 9 and Pennsylvania with 5. The Medical College of South Carolina and the Technical Services Program, South Carolina State Development Board cooperated with Clemson University in presenting the symposium. Mrs. Joy Hulbert and Mrs. Ann Marie Young hosted the Ladies Program. The symposium was coordinated by the Office of Industrial and Municipal Relations.

MECHANICAL ENGINEERING

The Department of Mechanical Engineering will present a seminar on "Simulation In Industrial Operations" on Mar. 13-14, in Room 105, Riggs Hall. Appearing on the program will be Dr. James A. Chisman, Associate Professor of Mechanical Engineering and Seminar Moderator; Mr. John Sox, IBM Corporation; Messrs. John Fraker and K. E. Forry, Department of Mechanical Engineering. Dr. H. H. Macaulay, Professor of Economics, will be the banquet speaker. Co-sponsoring the seminar will be IBM Corporation. Enrollment is limited to 30 participants on a first come basis with application deadline of March 3. Registration or additional information is handled by Prof. R. A. Banister, Coordinator, Office of Industrial and Municipal Relations, College of Engineering, 109 Riggs Hall, Clemson, South Carolina.

POULTRY SCIENCE

M. A. Boone (Prof) completed a term as Chairman of the Southern Regional Avian Environmental Physiology and Bioengineering Study Group at the annual meeting in Mobile, Ala., Feb. 2. He presented a paper entitled, "Clemson Research in Avian Environment" at this annual meeting.

Boone also summarized a panel at the joint Agricultural Engineering and Poultry Section of the Association of Southern Agricultural Workers in Mobile. He served on the resolutions committee of the Poultry Section of ASAW and was elected secretary of Poultry Science section of ASAW for 1969-1970.

All students in Poultry Science and the Poultry Club Advisor, M. A. Boone, were guests of the Southeastern Poultry and Egg Association at their annual meeting in Atlanta, Jan. 26 and 27.

SCHOOL OF INDUSTRIAL MANAGEMENT AND TEXTILE SCIENCE

The School of Industrial Management and Textile Science hosted a luncheon on Feb. 7 at the Union League Club in New York for the 1969 Textile Marketing Forum programees. Dean Wallace D. Trevillian and Professor T. H. Gunter, Director of the Textile Marketing Forum, acted as hosts for the University.

William C. Laffoday (Coordinator, Professional Development Program) delivered an address to the Augusta Personnel Association Club on Jan. 23 entitled "Motivating the Motivators."

A collection of technical books, textile color catalogs, and textile materials has been given to the Sirrine Library of the School of Industrial Management and Textile Science by Mrs. John A. Harley of Charlotte, N. C. The materials belonged to her late husband. The gift includes 30 textbooks, 12 technical manuals, 15 bound volumes of the "American Dyestuff Reporter," and a number of other publications.

MATHEMATICS DECISION SCIENCES COLLOQUIUM, ROOM 1 - PHYSICS BUILDING - 4 P.M.

MARCH 5 (WEDNESDAY)

Dr. B. J. Prochaska
Assistant Professor of Mathematics
Clemson University

Topic: Estimation in Dynamic Systems:
A New Kalman-Type Filter

MARCH 12 (WEDNESDAY)

Dr. T. L. Connell
Assistant Professor of Mathematical Statistics
The University of Maryland

Topic: Sample Size for Specified Width
Confidence Intervals

MARCH 26 (WEDNESDAY)

Dr. S. E. Elmaghraby
Chairman, Joint Committee on Operations Research
North Carolina Universities, Chapel Hill/Raleigh

Topic: Sequencing Problems

APRIL 2 (WEDNESDAY)

Dr. C. B. Russell
Assistant Professor of Mathematics
Clemson University

Topic: Surveillance Problems

APRIL 16 (WEDNESDAY)

Dr. Ingram Olkin
Professor of Statistics
Stanford University

Topic: Characterization of Distributions

PHILOSOPHERS AND THE CRISIS OF AUTHORITY

Faculty and other interested persons are invited to attend any or all of the following sessions scheduled at Clemson House on March 7-8, 1969. The featured speaker for this conference is Professor Abraham Kaplan of the University of Michigan, who is an internationally known authority in social and political philosophy.

FRIDAY, MARCH 7

8:00 p.m. FIRST JOINT SESSION - The Clemson Room
Presiding: Bowman Clarke, President
Georgia Philosophical Society

Introduction of Principal Speaker: Paul Kuntz, Emory University

Principal Conference Address:
"The Crisis of Authority"
Abraham Kaplan, The University of Michigan

Coffee Break

9:30 p.m. First Featured Paper:
"Authority: Its Nature and Locus"
Iredell Jenkins, The University of Alabama

Comments - Open Discussion

SATURDAY, MARCH 8

9:00 a.m. FIRST CONCURRENT SESSIONS
Section 1, Purple Room
Presiding: John Cooper, President
The South Carolina Society for Philosophy

- (1) "The Function and Limits of Epistemic Authority"
Richard T. De George, The University of Kansas
- (2) "History's Want of Authority - Some Logical and
Historical Speculations"
L. B. Cebik, The University of Georgia

Section 2, Gold Room
Presiding: Robert V. Andelson, President
The Alabama Philosophical Society

- (1) "On Tolerance"
Thomas K. Hearn, The College of William and Mary

PHILOSOPHERS AND THE CRISIS OF AUTHORITY (continued)

- (2) "The Concept of Authority and Performative Utterances"

James Harris, The University of Georgia

Section 3, Blue Room

Presiding: John Davis, President

East Tennessee Philosophical Association

- (1) "Authority and the Body Politic"

John O'Neil, York University (Toronto)

- (2) "The Transformation of the Role of Authority in the Modern World"

John Mayer, Brock University (St. Catharines, Ontario)

Section 4, The Clemson Room

Presiding: Alan Brinkley, Secretary

North Carolina Philosophical Association

- (1) "What Do Paul Tillich's 'Theological Answers' Answer?"

Alan Gragg, Furman University

- (2) "Royce and the Justification of Authority"

Ignas Skrupskelis, The University of South Carolina

10:30 a.m. Coffee Break

11:00 a.m. SECOND JOINT SESSION - The Clemson Room

Presiding: W. B. H. Corkey, President

North Carolina Philosophical Association

Second Featured Paper:

"The Philosophical Grounds of the Present Crisis of Authority"

E. Maynard Adams, The University of North Carolina

Third Featured Paper:

"Civil Disobedience: Is it Justified?"

William T. Blackstone, The University of Georgia

1:00 p.m. LUNCH - Buffet - The Sabre Room (Main Dining Room)

3:00 p.m. SECOND CONCURRENT SESSIONS

Section 1, Purple Room

Presiding: Mabry Lunceford, Secretary

Alabama Philosophical Society

- (1) "The Crisis of Authority in the Protestant Churches of the U. S."

John C. Cooper, Eastern Kentucky University

PHILOSOPHERS AND THE CRISIS OF AUTHORITY (continued)

- (2) "The Crisis of Authority Within the University"
Martin Terris, University of Georgia

Section 2, Gold Room

Presiding: James Jordan, Secretary
Georgia Philosophical Association

- (1) "Authority Versus Anomie"
Albert E. Tibbs, Furman University
- (2) "Genuine Authority is For Freedom"
Robert V. Andelson, Auburn University

Section 3, The Clemson Room

Presiding: Rosamond Sprague, Secretary
The South Carolina Society for Philosophy

- (1) "Kant - On Authority"
Sidney Axinn, Temple University
- (2) "The Authority of Conscience"
John Granrose, The University of Georgia

4:30 p.m. Adjourn

INSURANCE LECTURES FOR CLEMSON FACULTY

On Thursday, March 13, Dr. Dan M. McGill, Chairman, Insurance Department, Wharton School, University of Pennsylvania, will speak in Surrine Hall Auditorium at 3:30 p.m. on the topic, "Protecting Pension Benefits Against Loss of Purchasing Power." This topic should be of particular interest to faculty members since it will cover tax-sheltered annuities, the variable annuity which was recently approved for sale in South Carolina, and related matters.

In addition, Dr. McGill will deliver a 7:30 p.m. lecture in Surrine Auditorium entitled, "Current Issues in the Private Pension Field." The fundamental issues of funding, vesting, and plan termination insurance will be discussed, as well as safeguards toward making a pension program feasible and the latest findings of the Pension Research Council.

Dr. McGill is one of the most highly respected insurance educators in the nation. He is author of many books, consultant to government and industry, director of the Huebner Foundation for Insurance Education, former president of the Faculty Senate, and a leading figure in formulating graduate policy at the University of Pennsylvania.

CALENDAR OF CAMPUS EVENTS

Mar.	1-2	Sat-Sun		Sailing - Citadel Intersectional Regatta at Charleston
Mar.	3	M	9:00 a.m.	Educational Council Meeting
Mar.	3	M	4:00 p.m.	825 Agronomy Seminar Program - Shashi M. Rishi "Nuclear Energy: Hazards And Use In Agriculture," Room A-203, P&AS Bldg.
Mar.	3	M	7:00 p.m.	Foreign Language Film Series - The Richard Tauber Story (Du Bist Die Felt Fur Mich) German--Famous melodies by Franz Lehar, the great Viennese composer, illuminate this dramatic story of Richard Tauber's life, for whom many of his operettas were especially written. (This movie is a substitute for <u>Der Verbrochene Krug</u> , which was cancelled because of the unavailability of sub-titled prints.) Civil Engineering Aud.
Mar.	4	Tu	6:30 p.m.	Sage Club, Clemson House
Mar.	4	Tu		Biochemistry Seminar - L. G. Warnock, Professor of Biochemistry, Vanderbilt University, "Biochemistry of Thiamine Deficiency," Room 131, Brackett Hall.
Mar.	5	W	7:30 p.m.	Religion Lecture - "Sacred Secularity" by Dr. Ralph E. Cushman, Professor of Systematic and Philosophical Theology and Dean, Duke Divinity School. Tillman Hall Auditorium.
Mar.	5-8	W-Sat		Clemson Players' Production
Mar.	6	Th	2:00 p.m.	Mr. Roger Milliken, President, Deering Milliken, Inc., Spartanburg, will be the speaker for the School of Industrial Management and Textile Science Seminar in Sirrine Auditorium.
Mar.	6	Th	8:00 p.m.	Junior Follies - Fike Field House
Mar.	6	Th	8:00 p.m.	Graduate Wives Club meeting in YMCA
Mar.	6-7	Th-F	8:00 a.m.- 4:00 p.m.	Federal Inspection - The annual inspection of the Clemson Army ROTC program by representatives of the Department of the Army will be conducted.
Mar.	6-8	Th-Sat		ACC Basketball Tournament at Charlotte, N. C.

Mar.	7	F	7:00 p.m.	Military Banquet and Ball
Mar.	7	F	8:00 p.m.	Lecture - "The Crisis of Authority," Brackett Hall, Dr. Abraham Kaplan.
Mar.	7-8	F-Sat		CDA Spring Hop
Mar.	8	Sat		Sailing - Clemson Invitational Regatta at the Y beach.
Mar.	10	M	4:00 p.m.	825 Agronomy Seminar Program - James H. Palmer "Some Considerations Concerning The Factorial Mating Design And Its Application To Plant Breeding," Room A-203, P&AS Bldg.
Mar.	10	M	7:00 p.m.	Foreign Language Film Series - THE HUNT (La Caza) Spanish 1967. Voted one of the TEN BEST of 1967, New York Critics. Civil Engineering Aud.
Mar.	10	M	8:15 p.m.	Dean John Mayer of Brock University, St. Catherines, Ontario, will present lecture on "Liberalizing the Liberal Arts," in Brackett Hall Aud.
Mar.	11	Tu	4:15 p.m.	Faculty Senate Meeting, Olin Hall Aud.
Mar.	12-14	W-F		Visitation on campus of Board of Visitors
Mar.	13	Th	12:00 Noon	Sigma Xi meets at Clemson House. Speaker is Dr. Robert S. Mathews of Shriners' Hospital for Crippled Children in Greenville.
Mar.	15	Sat	12:00 Noon	Spring Holidays Begin
Mar.	18	Tu	12:00 Noon- 1:30 p.m.	Women of Teaching Faculty Luncheon, Clemson House





CLEMSON NEWSLETTER

INFORMATION FOR THE STAFF OF CLEMSON UNIVERSITY

Vol. 8 No. 14

March 15, 1969

ALUMNI PROFESSORS ANNOUNCED

The eight Alumni Professorships sponsored by the Alumni Association are now filled following the nomination of four new Alumni Professors by the academic deans. The appointments were made by President Robert C. Edwards.

The four new appointees are: Dr. E. M. Lander (history), Dr. R. J. Calhoun (English and modern languages), Dr. J. H. Hobson (chemistry), and Professor D. W. Bradbury (mechanical engineering). The four continuing Alumni Professors are:



NEW ALUMNI PROFESSORS--President Robert C. Edwards has appointed four new Alumni Professors: Prof. Douglas W. Bradberry (seated) and (standing, left to right) Dr. James H. Hobson, Dr. Richard J. Calhoun, and Dr. Ernest M. Lander, Jr.

ALUMNI PROFESSORS ANNOUNCED (Continued)

Dr. Hugh Macaulay (economics), Dr. J. N. Thurston (electrical engineering), Dr. J. M. Stepp (agricultural economics), and Dr. H. N. Cooleage, Jr. (architecture).

Dr. Marvin Owings (English) relinquished his Alumni Professorship when he accepted appointment to the administrative position of head of the department of English.

The Alumni Professorship stipends will be increased from \$1,500 to \$2,000 per year. New appointments become effective July 1, 1969.

ANNUAL RE-WORK PERIOD - TRAVELERS INSURANCE GROUP

The annual re-work period for the Travelers Insurance Group will be March 1-31, 1969. Company representatives will be on campus during this period and will be available to explain the Travelers plans and coverage to any interested employee. Visits will be made to any department desiring such and at times most convenient to the respective departments.

Present members desiring to make changes to fit their individual needs may do so at this time. Employees presently enrolled and desiring no changes will be automatically continued and need not contact the representatives at this time. Anyone who desires to obtain this type of insurance coverage must make application during their first 31 days of employment, or during this re-work period.

If you wish to make an appointment with one of the representatives, you may do so by contacting Mr. W. J. Stamey, Personnel Division, Extension 365.

MRS. BROWN BECOMES COUNTY EXTENSION HOME ECONOMIST IN DORCHESTER COUNTY

Effective February 16, 1969, Mrs. Bernice Brown was appointed County Extension Home Economist in Dorchester County. Mrs. Brown, a native of Eastover, received a bachelor's degree in Home Economics from South Carolina State College in 1956 and a master's degree from the same institution in 1967. She joined the Cooperative Extension Service of Clemson University in 1956 and has served as Associate Extension Home Economist stationed in St. George since July 1, 1967.

GIFTS AND GRANTS

Olin-Mathieson Chemical Corporation, \$1,250 to the Department of Chemical Engineering to support a rising senior for a summer's research project. Mr. Barry Ornitz will work with Dr. D. F. Bruley on a problem in direct digital control.

3M Company, \$1,200 to the Department of Chemical Engineering for undergraduate scholarships.

The Ethyl Corporation, \$500 to the Department of Chemical Engineering for an undergraduate scholarship.

CHEMISTRY

N. P. Marullo (Assoc Prof) presented lectures on "The Application of NMR to the Structure of the Carbon-Nitrogen Double Bond" to chemistry groups at the University of North Carolina at Chapel Hill, Wake Forest College, Virginia Polytechnic Institute and the Medical College of Virginia, Feb. 11-14.

ELECTRICAL ENGINEERING

The Department of Electrical Engineering will sponsor a seminar on "Integrated Circuits" in Room 300, Riggs Hall, Monday, March 24, 1969. Scheduled to appear on the program are Dr. J. W. Lathrop, Clemson University, Dr. R. M. Burger, Research Triangle Institute, Research Triangle Park, North Carolina; Dr. R. M. Warner, Jr., ITT Semiconductors, West Palm Beach, Florida; and Mr. J. S. Kilby, Texas Instruments, Inc., Dallas, Texas. Dr. Harold N. Cooledge, Jr., Alumni Professor from the School of Architecture will speak at the luncheon, Topic: "For Every Action There Is An Equal And Opposite Reaction." Co-sponsoring the seminar is the South Carolina Section, The Institute of Electrical and Electronics Engineers, Inc. Registration or additional information may be obtained from Professor R. A. Banister, Coordinator, Industrial and Municipal Relations, College of Engineering, 109 Riggs Hall.

ENGINEERING MECHANICS

Paul B. Zielinski (Asst Prof) participated in a National Science Foundation proposal review panel in Washington, D. C., Feb. 28-Mar. 1.

ENGLISH AND MODERN LANGUAGES

Richard J. Calhoun (Prof) has been selected a member of the jury to select manuscripts for the South Carolina Conference on Poetry and Fiction sponsored by the Tri-Centennial Commission and the University of South Carolina. James Dickey, Allen Tate, and Peter Taylor will be among the writers participating in the conference.

Harriet R. Holman (Assoc Prof) compiled a checklist included in A Bibliographical Guide to the Study of Southern Literature, to be published by Louisiana State University Press in April. She also wrote an article, "A Measure for the Story of Initiation," which appeared in the November South Atlantic Bulletin.

ENTOMOLOGY AND ZOOLOGY

In Ohio State University Cooperative Extension Service Bulletin 473 (16-1), January 1969 on "Insect and Mite Pests of Livestock, Poultry, and Farm Buildings," they used and acknowledged the Dust Station Plans devised by T. R. Adkins, Jr. (Prof).

HORTICULTURE

P. M. Alexander (Assoc Prof) has been re-elected to the office of Secretary-Treasurer, Carolinas Golf Course Superintendents Association for the third consecutive two year term. Dr. Alexander has served in this capacity since 1965. Dr. Alexander also recently presented an invited paper, "Poa annua--Successful Control in Fairways and Greens in the South," at the 40th International Turfgrass Conference and Show, Miami Beach, Fla. This conference attracted more than 3,600 persons representing 46 states and 14 foreign countries.

POULTRY

S. R. North (Grad Stud) presented a paper entitled, "The Ultrastructure of Rooster Spermatozoa" at the Poultry Section of the ASAW meeting held in Mobile, Ala., Feb. 3-5. The co-authors were M. A. Boone (Prof) and J. F. Dickey (Asst Prof).

SOCIAL SCIENCES

H. D. Adams (Asst Prof) has published "Did Jackson Disobey Orders?" in the South Carolina Historical Association Proceedings, 1968.

W. C. Capel (Asst Prof) and C. B. Caffrey (Tulane University School of Public Health) presented, "Negro and War Attitudes of the Same Persons Measured at Three Points Over a 33 Year Time Span," at the annual meeting of the Southeastern Psychological Association, New Orleans, Feb. 28-Mar. 1. Clemson undergraduate psychology students reading papers during this meeting were: Beth H. Jones and Linda Fowler, "Differences in Reaction Time of Normal and Educable Mentally Retarded Seven-year Olds;" Michael Vento, "The 'Placebo Effect' in Normal Non-Patient Samples;" Simms Anderson II and Janet K. Garrison, "Change in Negro Attitudes of White Southern Students as a Function of Exposure to the Atmosphere of a Southern University;" and M. Clarice Jones and James R. Holcombe, "Racial Attitudes as a Function of Family Background."

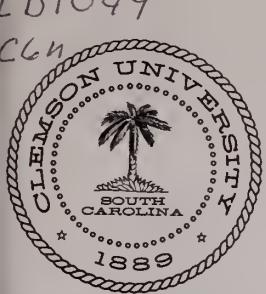
DEVELOPMENT

Harry Durham (Dir Communications Center) presented a lecture, "University Photographer," at a meeting of the Southeastern Professional Photographers Association in Atlanta, Ga., recently.

George Moore (Assoc Dir Alumni Relations) represented Clemson at the American Alumni Council's conference on data processing in New York City March 2-5.

CALENDAR OF CAMPUS EVENTS

Mar.	15	Sat	Noon	Spring Holidays Begin
Mar.	18	Tu	12:00 Noon- 1:30 p.m.	Women of Teaching Faculty Luncheon, Clemson House
Mar.	24	M		Classes Resume
Mar.	24	M	4:00 p.m.	825 Agronomy Seminar Program - Dr. James R. Woodruff "Soil Test Correlation With Crop Growth," Room A-203, P&AS Bldg.
Mar. April	25- 29	Tu		Continuing Education Classes
Mar.	27	Th	8:00 p.m.	Society of Sigma Xi lecture in Plant and Animal Science Building Auditorium. Dr. Emanuel Suter, of the University of Florida and National Lecturer for the Society of the Sigma Xi, will speak on "Human Experimentation, Medical Progress, and Society."
Mar.	28	F		CDA - Jr.-Sr. Dance, Fike Field House
Mar.	28-29	F	10:00 a.m.- 8:30 p.m.	Spring Meeting of the South Carolina Branch of the American Society for Microbiology at Clemson House. At 8:30 lecture, Dr. Edward A. Adelberg, Yale University School of Medicine, will speak on "Bacterial Conjugation: The Mechanism of DNA Transfer."
		Sat	9:00 a.m.- 12:45 p.m.	Spring Meeting of the South Carolina Branch of the American Society for Microbiology continues at Clemson House.
Mar.	29	Sat		Architectural School Aptitude Test, Room 20, Tillman Hall
Mar.	29	Sat		Sailing - USC Invitational Regatta at Columbia
Mar.	29	Sat	8:30 p.m.	CDA Concert - "The Lettermen" - J. C. Littlejohn Coliseum
Mar.	31	M	4:00 p.m.	825 Agronomy Seminar Program - Robert P. Gambrell "Use of Chemical Oxygen Demand and Biological Oxygen Demand Procedures in Analyzing Waste Water." Room A-203, P&AS Bldg.
Apr.	2-5	W-Sat		Clemson Players' Production
Apr.	3	Th	8:00 p.m.	Graduate Wives Club will include a fashion show sponsored by Mrs. Duncan of Swirl Boutique, in YMCA



CLEMSON NEWSLETTER

INFORMATION FOR THE STAFF OF CLEMSON UNIVERSITY

Vol. 8 No. 15

April 1, 1969

SUMMARY OF THE MINUTES OF THE FACULTY SENATE, MARCH 11, 1969

APR 3 1969

A resolution presented by the Admissions and Scholarship Committee providing for the establishment of a pass-fail grading system was adopted. This resolution provides that Juniors and Seniors, with the approval of their advisors, may elect one course each semester, for a maximum of fourteen semester hours from their electives, to be taken under the pass-fail system. Credit earned will apply toward graduation, but will not be used in the computation of the grade-point ratio. The passing designation will reflect the equivalent of the grade of C or better. The resolution provides for a review and evaluation of the system two years from its installation.

After much discussion involving a recommendation from the Admissions and Scholarship Committee which stated that the Senate should not endorse the elimination of Saturday classes, the Senate passed a motion from the floor that the Senate should go on record in favor of the elimination of Saturday classes.

A resolution recognizing the service of Dr. Hugh H. McGarity, now retired after twenty-one years as a member of the faculty of Clemson University, professor and director of the Clemson University Glee Club, expressing the appreciation of the Senate, and resolving that he be given credit as the composer of the music of the Clemson Alma Mater, was passed unanimously.

The terms of office of the following members of the Faculty Senate expire this semester: J. K. Reed, S. M. Lukaweki, M. G. Miller, R. F. Mixon, Eugene Park, Herbert Brantley, D. W. Bradbury, R. F. Nowack, J. H. Marvin, and B. J. Todd. President Park announced that the membership of the Faculty Senate for the next academic year will be increased from 39 to 48, with the College of Liberal Arts having the greatest representation, numbering 10, followed by the College of Mathematical and Physical Sciences with 9, and the College of Engineering with 8.

FORT HILL ALUMNI CLUB

The Fort Hill Clemson Club will observe the Clemson Alumni Association's annual Clemson Week Around the World Wednesday, April 23, at the Clemson House with a social hour at 7 p.m., followed by a buffet dinner at 8. Guest speaker will be the Hon. Calvin D. Johnson, consultant on public affairs for the American Trucking Assoc., and a former U. S. Congressman. His topic will be "Opportunities Unlimited."

Tickets are \$5 each and can be purchased at the Alumni Office in the Trustee House.

NEWSLETTER POLICY CONCERNING ANNOUNCEMENTS OF MEETINGS ON CAMPUS

Various limiting factors have made it necessary to formulate a more restricted policy concerning the announcements of various meetings held at Clemson House and on the campus. Hereafter the Clemson Newsletter will need to limit the announcement of meetings which are of primary interest to the university community to the following: name of the organization and dates of the meeting, a summary statement concerning the theme of the meeting and the extent to which Clemson faculty, staff, and students are involved, and the name of the person from whom detailed information about the meeting and copies of the program may be secured.

Except for unusual circumstances the Newsletter will not be able to publish the entire program and the names of all the participants.

HONORS AND AWARDS DAY, APRIL 9, 1969

All classes are suspended at twelve noon on Honors and Awards Day, April 9. Events scheduled for the afternoon are:

Programs by Colleges and Schools-----	2:00-3:00 p.m.
Joint Army-Air Force Program--Bowman Field-----	3:15-4:00 p.m.
President's Reception-----	4:15-5:15 p.m.

Students, faculty, parents, and friends are cordially invited to attend each of these.

ANNUAL MEETING OF THE RESEARCH FACULTY

The annual meeting of the Research Faculty will be held April 25, 1969 at 4:00 p.m. in the auditorium of Earle Hall.

GAMMA SIGMA DELTA ANNUAL INITIATION BANQUET

The Annual Initiation Banquet of the Clemson University Chapter of Gamma Sigma Delta will be held at the Clemson House on Wednesday, April 9, 1969 at 7:00 p.m. The speaker will be Dr. E. T. York, Jr., Provost, Institute of Food and Agricultural Sciences, University of Florida, Gainesville, Fla.

CLEMSON UNIVERSITY ROTC COUNTER-GUERRILLA UNIT VISIT U. S. ARMY MOUNTAIN RANGER CAMP

The Clemson University ROTC Counter-Guerrilla Unit, commanded by Cadet Captain Robert Smalser of Englishtown, N. J., recently returned from a three-day field exercise conducted at the U. S. Army Mountain Ranger Camp near Dahlonga, Ga. While there, the Clemson cadets received instruction on various phases of military mountaineering.

ADMINISTRATION

Linvil G. Rich (Dean, Engr) participated on ECPD inspection of the engineering curriculum at Colorado State University, Fort Collins, Colo. on Mar. 10 and 11.

COLLEGE OF ENGINEERING

Dr. Winston E. Kock, Vice-President and Chief Scientist of the Bendix Corporation, will deliver a lecture Wednesday, Apr. 2, at 4:00 p.m. in Earle Hall auditorium on "Sound Waves, Light Waves and Holograms." This lecture is jointly sponsored by the National Academy of Sciences, Nation Research Council and the Acoustical Society of America.

ENTOMOLOGY AND ZOOLOGY

James M. Barnett, Executive Director of the South Carolina Tricentennial Commission, has asked the following to serve on a working committee to advise the Commission in ways and means of controlling the insect pests in the Tricentennial Commission's Parks: J. H. Cochran (Hd), T. R. Adkins, Jr. (Prof), and L. R. Morgan (Ent Asst, S. C. State Crop Pest Com, Charleston).

Several of the Clemson staff members participated in the program of the 18th Annual Pesticide Chemicals School, sponsored jointly by the Departments of Entomology and Zoology and Botany and Bacteriology, which was held at the Clemson House on Mar. 4 and 5. Registration for this meeting numbered 130.

At the 14th Annual Meeting of the South Carolina Entomological Society, Inc. held at the Clemson House on Mar. 5 and 6, the following from the Department of Entomology and Zoology presented papers: Richard C. Fox (Prof), President of the Society, S. B. Hays (Assoc Prof), Edwin W. King (Prof), J. B. Kissam (Assoc Ext Spec - Ent), John K. Reed (Prof), Averett S. Tombes (Assoc Prof), and W. K. Willard (Asst Prof). Three entomology graduate students, W. W. Gregory, H. R. Harris and P. H. Carlson, presented papers and two undergraduate students, J. M. Cloninger and David C. Arnold, presented papers.

S. G. Turnipseed (Assoc Prof), located at the Edisto Station, was elected president of the South Carolina Entomological Society, Inc. for 1969 and L. H. Senn (Asst State Ent) was elected secretary-treasurer. Don C. Weeks (Asst Ent, S. C. State Crop Pest Com, Florence), was re-elected historian.

INTERDISCIPLINARY STUDIES IN ENGINEERING

Samuel F. Hulbert (Hd) and C. Clifford Fain (Assoc Prof, CrE) have been awarded a research grant from the Public Health Service to continue work on the Design of a Water Disposable Packaging Container. The budget for the second year of the grant is \$52,937.

INTERDISCIPLINARY STUDIES IN ENGINEERING (continued)

S. F. Hulbert (Hd) presented the paper "Kinetics of the Reaction Between MgO and Al_2O_3 in Powder Compacts" at the 64th National Meeting of the American Institute of Chemical Engineers, New Orleans, La., Mar. 18. Dr. Hulbert also presented a seminar on the "Design and Evaluation of a Water Disposable Packaging Container" at the University of Houston, Houston, Tex., Mar. 19.

F. A. Young (Asst Prof) presented the paper "The Fracture of a Commercial Spherical Alloy Dental Amalgam" at the 47th Annual Meeting of the International Association for Dental Research, Houston, Tex., Mar. 20.

S. F. Hulbert (Hd), J. J. Klawitter (Grad Stud), and C. D. Talbert (Grad Stud) presented the paper "Compatibility of Ceramics with Bone" at the 47th Annual Meeting of the International Association for Dental Research, Houston, Tex., Mar. 20.

J. J. Klawitter (Grad Stud), S. F. Hulbert (Hd), and F. A. Young (Asst. Prof) presented the paper "The Potential of Ceramics for Implanted Teeth" at the 47th Annual Meeting of the International Association for Dental Research, Houston, Tex., Mar. 22.

MECHANICAL ENGINEERING

James A. Chisman (Assoc Prof) directed a successful 2-day seminar-workshop on "Simulation in Industrial Operations" held at Riggs Hall on Mar. 13-14. Assisting Dr. Chisman with the technical sessions was Mr. John Sox, IBM Corporation, Atlanta, Georgia. Mr. John Fraker and Mr. K. E. Forry assisted with the Simulation Workshop. Dr. Hugh H. Macaulay (Alumni Prof, Econ) presented a talk on "The Road to Hell is Paved with Good Intentions" at the dinner meeting. IBM Corporation co-sponsored the seminar-workshop and also provided the luncheon for the staff and participants. Arrangements were coordinated by the Office of Industrial and Municipal Relations, College of Engineering.

Julian Davis and Robert Stanzione (ME Seniors) presented papers to the Greenville Section of ASME Friday, Mar. 7. Mr. Davis' paper was entitled "An Automatic System for Handling Radio-active Materials Used in Cancer Treatment" and Mr. Stanzione's was entitled "Gas Turbine Power Plants and Their Applications." These same two students will present their papers at the Regional Conference of ASME which will be held at Clemson Apr. 10, 11, and 12.

PHYSICS

B. E. Powell (former Grad Stud) and M. J. Skove (Assoc Prof) have published a paper in a recent issue of the Physical Review entitled "Measurement of Higher-Order Elastic Constants, Using Finite Deformations."

PHYSICS (continued)

John A. Gilreath (Instr) will be an Oak Ridge Associated Universities Research Participant at the Savannah River Plant this summer. He will be involved in the research in progress in the electron microscopy section of the Metallurgy Division.

Donald P. Miller (Assoc Prof) presented a lecture demonstration to a group of students at James F. Byrnes High School in Duncan, S. C. on Mar. 11.

H. W. Graben (Assoc Prof), F. J. Keller (Asst Prof), A. L. Laskar (Assoc Prof), and R. C. Turner (Asst Prof) attended the Solid State Meeting of the American Physical Society held in Philadelphia, Mar. 24-27. Papers presented by Physics faculty members at this meeting were:

F. J. Keller (Asst Prof) and F. W. Patten (Naval Res. Lab), "Structure of the V_1 Center in KCl."

A. P. Batra (UNC), A. L. Laskar (Assoc Prof) and L. Slifkin (UNC), "Effect of Chlorine on the Diffusion of Au^+ in AgCl."

Henry E. Vogel (Hd) and Malcolm J. Skove (Assoc Prof) attended the winter meeting of the American Physical Society held in New York on Feb. 3-6. The following papers were presented by the Department of Physics at this meeting:

M. W. Riley (Grad Stud) and M. J. Skove (Assoc Prof), "Nonlinearities in the Stress-Strain Relations for Ni Whiskers."

D. R. Overcash (Grad Stud), M. J. Skove (Assoc Prof), and E. P. Stillwell (Assoc Prof), "Effect of Uniaxial Tension on the Superconducting Transition Temperature of In Alloys."

R. E. Longshore (former Grad Stud) and R. L. Chaplin (Assoc Prof) are authors of a paper appearing in the January 1969 issue of The Journal of Applied Physics entitled "Electron Irradiation of Single Crystals of Aluminum."

F. J. Keller (Asst Prof) presented a demonstration lecture to a group of Sumter High School students on Mar. 3.

SOCIAL SCIENCES

S. N. Cole (Asst Prof) has published "Prejudice and Conservatism in a Recently Integrated Southern College" in Psychological Reports (1968).

R. B. Harris (Asst Prof) was elected president of the South Carolina Society for Philosophy for 1969-1970 at the annual meeting of the society held at Clemson, Mar. 8.

TEXTILE SCIENCE

Donald W. Lyons (Assoc Prof) and William Smith (Grad Stud, ME) presented a seminar at the Feb. meeting of the Columbia Section of the Instrument Society of America. The topic of the presentation was, "The Use of Analog Computers for the Design of Instrument Systems."

Frederick T. Simon (Sirrine Prof) presented a lecture in Color Science to members of the technical staff of Collins & Aikman Corporation at their new science and service center in Charlotte, N. C., on Mar. 6.

PHI KAPPA PHI SPRING INITIATION DINNER

Dr. James T. Barrs, professor of English at Northeastern University and Eastern Region Vice-President of the National Honor Society of Phi Kappa Phi, will address the Clemson Chapter of Phi Kappa Phi at its spring initiation dinner on Tuesday evening, April 8 at Schilletter Hall, the University's new East Campus dining facility.

Dr. Barrs holds the doctor of philosophy degree in comparative philology from Harvard University, is a radio and television lecturer, and is the author of numerous articles and papers in the field of linguistics.

CALENDAR OF CAMPUS EVENTS

Apr.	2-5	W-Sat		Clemson Players' Production
Apr.	3	Th	8:00 p.m.	Graduate Wives Club will include a Fashion Show sponsored by Mrs. Duncan of Swirl Boutique, in YMCA
Apr.	5	Sat		Spring Football Game
Apr.	7	M	9:00 a.m.	Educational Council Meeting
Apr.	7	M	4:00 p.m.	825 Agronomy Seminar Program - Thomas W. Sawyer - Book Report: "An Introduction to Soil Science in the Southeast" (G. D. McCart & C. D. Welch); James J. Wheeler - Book Report: "Soils and Soil Fertility" (L. M. Thompson); Richard G. Dobbins - Book Report: "The Soils That Support Us" (C. E. Kellogg). Room A-203, P&AS Bldg.
Apr.	7	M	7:00 p.m.	Foreign Language Film Series - TO BE A CROOK (Une fille et des fusils) French--Directed by Claude LeLouch, Academy Award Nominee as Best Director. Civil Engineering Aud.

Apr.	8	Tu	4:00 p.m.	Biochemistry Seminar - Ann Baxter, Assistant Professor of Botany and Bacteriology, Clemson Univ., "Mechanisms of Arginine and Citrulline Transport in Streptococcus Faecalis," Room 101, P&AS Bldg.
Apr.	8	Tu	6:30 p.m.	Sage Club, Clemson House
Apr.	9	W		Honors and Awards Day (Classes suspended at noon)
Apr.	10	Th	2:00 p.m.	Senator Earle E. Morris, Jr., Vice President, State Bank and Trust Co., Pickens, South Carolina, will be the speaker for the School of Industrial Management and Textile Science Seminar in Sirrine Auditorium.
Apr.	10	Th	3:00 p.m.	Graduate Seminar - Ronald W. Boling, Professor of Management Science, University of Tennessee, will be the speaker for the Dept. of Industrial Management in Sirrine Aud. Subject: "An Analytical Approach to the Design of Production Line Systems."
Apr.	11-13	F-Sun		Sailing - South Atlantic Intercollegiate Sailing Association - Spring Championships at Davidson
Apr.	12	Sat		Admission Test for Graduate Study in Business, Room 20, Tillman Hall
Apr.	14-19	M-Sat		Clemson Week Around the World
Apr.	14	M	4:00 p.m.	825 Agronomy Seminar Program - Jerry C. Walker "Pesticide - Environment Interactions." Room A-203, P&AS Bldg.
Apr.	15	Tu	12:00 Noon-1:30 p.m.	Women of Teaching Faculty Luncheon, Clemson House
Apr.	15	Tu	4:15 p.m.	Faculty Senate Meeting, Olin Hall Auditorium
Apr.	17	Th		ROTC Recognition Day



CLEMSON NEWSLETTER

INFORMATION FOR THE STAFF OF CLEMSON UNIVERSITY

Vol. 8 No. 16

April 15, 1969

CLEMSON UNIVERSITY LIBRARY
SOUTH CAROLINA ROOM

FIVE MEN TO RECEIVE HONORARY DEGREES

Five men who have distinguished careers in journalism, education, military, and textile research will be awarded honorary degrees at the University's 73rd Commencement Friday, May 9. Graduation exercises will be held in the new J. C. Littlejohn Coliseum at 11 a.m.

APR 16 1969

The group includes Jenkin Lloyd Jones, noted editor-publisher of the Tulsa (Okla.) Tribune and syndicated columnist who will make the Commencement address and receive an honorary Doctor of Laws degree. Also to receive honorary Doctor of Laws degrees are Gen. Hugh P. Harris, president of The Citadel, and Hubert B. Owens, dean-designate of the School of Environmental Design at the University of Georgia.

Dr. Hugh H. Holman, Kenan Professor of English at the University of North Carolina, will receive an honorary Doctor of Letters degree, and Wilson A. Reeves, chief of Cotton Finishes Laboratory of the Southern Regional Utilization Research and Development Division, U. S. Department of Agriculture in New Orleans, La., will receive an honorary Doctor of Science degree.

UNIVERSITY-PRODUCED PROGRAMS AIRED ON TELEVISION

A series of weekly television programs on the general theme "Changing Religious Viewpoints" is being aired by the South Carolina Educational Television Network. Produced by the University Communications Center, the half-hour discussions on current changes in American religious mentality are being shown Thursday evenings at 9:30, and can be seen on channel 29 in Greenville; 35 in Columbia; 33 in Florence; 14 in Barnwell; and 7 in Charleston.

Repeat showing of each program are being televised at weekly intervals which began April 12 at 3:45 p.m.

Members of the Clemson faculty are featured on each of the programs.

Programs and dates they will be shown are: April 16, 3:45 p.m. (Repeat of April 3 program, "Religion Under Thirty"); April 17, 9:30 p.m., "A Changing God In A Changing World" (Repeat April 30, 3:45 p.m.); April 23, 3:45 p.m. (Repeat of April 10 program, "An Early American View of Religion"); April 24, 9:30 p.m., "The Morality Of War And Peace" (Repeat May 7, 3:45 p.m.); May 1, 9:30 p.m., "Sex And Human Dignity" (Repeat May 14, 3:45 p.m.); May 8, 9:30 p.m., "Sacred Secularity" (Repeat May 21, 3:45 p.m.).

ADMINISTRATION

F. I. Brownley, Jr. (Grad Dean and Dir Univ Res) has been appointed the University's representative to Oak Ridge Associated Universities. He succeeds Dr. H. L. Hunter who has been Clemson's representative since the University joined the former Oak Ridge Institute of Nuclear Studies.

C. B. Green (Asst Dean of the Univ) represented Clemson University at the inauguration of John O. Eidson as president of Georgia Southern College on Apr. 3.

BIOENGINEERING

A seminar-workshop on "Computer Simulation of Biological Processes" will be held in Lowry Hall, May 12-14. It is intended for fermentation engineers, bioengineers, waste treatment engineers, and scientists in microbiology or biochemistry. No advanced mathematics is needed, but some knowledge of calculus aids greatly in formulating equations and in appreciating the techniques. The emphasis will be on example problems, and the assignments will be of graded difficulty to suit each individual. Staffing the seminar-workshop will be: Dr. H. R. Bungay (ESE), Moderator; Dr. R. C. Harshman (ChE), and Dr. M. L. Wolla (EE).

The coordinator is Prof. R. A. Banister, Office of Industrial and Municipal Relations, College of Engineering, 109 Riggs Hall.

CHEMICAL ENGINEERING

R. C. Harshman (Assoc Prof), J. W. Hall (Assoc Prof), F. C. Alley (Assoc Prof), and C. E. Littlejohn (Hd) attended the National Meeting of the American Institute of Chemical Engineers in New Orleans, Mar. 16-19.

F. C. Alley (Assoc Prof) presented a seminar entitled "Applications of Chemical Engineering in Air Pollution Control" at the Department of Chemical Engineering, Texas Technological College, Lubbock, Tex.

J. C. Mullins (Asst Prof) attended The Advanced School for Statistical Mechanics and Thermodynamics sponsored by The National Science Foundation and the University of Texas in Austin, Tex., Mar. 17-26.

D. F. Bruley (Asst Prof) attended a short course, "Principles of Digital Control and Industrial Applications," sponsored by the Chemical Engineering Departments of Auburn University and Louisiana State University in Birmingham, Ala., Mar. 3-7. Dr. Bruley also spoke on "Applied Mathematics In Chemical Engineering Calculations" at the Western North Carolina Chapter of AIChE, Mar. 13, in Hendersonville, N. C.

CIVIL ENGINEERING

The Department of Civil Engineering will sponsor a seminar on "ICES - STRUDL, Computer Method for Structural Analysis and Design" on Friday, May 2, at Room 100, Lowry Hall. Presenting sections of the seminar, or assisting with the workshop, will be Dr. W. A. Welsh, Jr. (CE), Moderator; Mr. R. A. Coleman (CE), Dr. R. E. Elling (CE), Dr. C. S. Rudisill (ME). The luncheon speaker will be Dr. H. N. Cooledge, Alumni Professor of Architecture.

Coordinating the seminar is Prof. R. A. Banister, Office of Industrial and Municipal Relations, College of Engineering, 109 Riggs Hall.

ELEMENTARY AND SECONDARY EDUCATION

Edith B. Card (Instr) presented a program of Appalachian folk music for dulcimer at the S.C.E.A. Convention in Columbia on Mar. 21. Following this program, she gave a lecture-demonstration for elementary classroom teachers dealing with the teaching of part singing, rhythms, and listening. Her picture with the dulcimers appeared on the cover of the winter issue of the South Carolina Musician.

ENTOMOLOGY AND ZOOLOGY

J. H. Cochran (Hd), L. H. Senn (Asst State Ent), T. E. Skelton (Asst Prof), and W. C. Nettles (Prin Spec - Ent & Plant Disease Wk) attended the annual meeting of the Georgia Entomological Society at Jekyll Island, Ga., on Mar. 18-20. Mr. Nettles served on the program as a member of the panel to discuss problems facing the pesticide industry in 1969.

T. E. Skelton (Asst Prof) served as one of three judges at the Easley High School Science Fair on Mar. 14.

D. J. Forrester (Asst Prof) attended the annual meeting of the Coordinating Committee on Research on Internal Parasites of Domestic Animals and presented a paper on "Swine Parasite Research in South Carolina" at the annual meeting of the Animal Disease Research Workers in the Southern States in Gainesville, Fla., Mar. 25-30. Dr. Forrester also visited the University of Tennessee, Knoxville, Tenn., Mar. 3-6, to give a seminar and to discuss research problems with the members of the Department of Zoology and Entomology.

T. R. Adkins, Jr. (Prof.) participated in the National Communicable Disease Center course in "Arthropod-borne Encephalitis" in Atlanta, Ga., Mar. 9-14. This course was designed to help participants acquire a basic knowledge and understanding of the epidemiology, prevention and control of arboencephalitides. Dr. Adkins also attended a conference on research on Tabanidae (deer flies and horse flies) at Rutgers University, New Brunswick, N. J., Mar. 24-26. Research problems and progress with emphasis on salt marsh species and their control were discussed.

ENTOMOLOGY AND ZOOLOGY (continued)

Dr. C. W. Sabrosky, President of The Entomological Society of America, has appointed Richard C. Fox (Prof) to the ESA Youth Science Development Committee.

Henry F. Percival (Belle Baruch Fellow and Ph. D. Grad Res and Teach Asst) has been awarded a National Wildlife Federation Fellowship in the amount of \$1000 for the school year 1969-70. Dr. Thomas L. Kimball, Executive Director of the National Wildlife Federation, made the announcement of the grant in early March.

INTERDISCIPLINARY STUDIES IN ENGINEERING

S. F. Hulbert (Hd) was elected as a member-at-large to the Regional Advisory Group of the South Carolina Regional Medical Program. Dr. Hulbert also presented the paper "Bioceramics" at the Annual Spring Meeting of the New England Section of the American Ceramic Society at Boston, Mass. on Apr. 2.

MECHANICAL ENGINEERING

The American Society of Mechanical Engineering held a three-day conference on April 10-12 at Clemson with the Clemson Student Section and the Greenville Section of ASME as co-hosts. The Conference brought together at Clemson approximately 100 student members and 150 senior members of ASME together with the Heads of the Departments of Mechanical Engineering from the southeastern region of the United States. Professor James K. Johnson of the Department of Mechanical Engineering and Mr. Robert Fay of the Deering Milliken Research Corporation served as co-chairmen of the joint Regional Student Conference and Regional Administrative Conference. Dr. T. C. Hardin was chairman of the Southeastern Region Department Heads Conference.

Technical papers were presented by the 16 finalists of the regional student paper contest. The winning student will present his paper in the national student paper contest to be held in Los Angeles this Fall.

The speaker at the awards banquet on Friday evening, April 11, was Dr. Dan Marlowe, Dean of Engineering, Catholic University and National President Elect of ASME for 1969-1970.

James A. Chisman (Assoc Prof) has had an article entitled "Simulation of an Automobile Engine Conveyor System" accepted for publication in the June issue of The Journal of Industrial Engineering.

C. A. Brandon (Assoc Prof) attended the Education/Industry Seminar at Chinqua-Penn Plantation in Reidsville, N. C. The seminar was sponsored by Western Electric and involved educators from 12 southeastern universities.

MECHANICAL ENGINEERING (continued)

On March 28, IBM in cooperation with the Mechanical Engineering Department, presented a one day seminar on Advanced GPSS at Clemson University. Approximately 20 people were in attendance and included graduate students and faculty members.

GIFTS AND GRANTS

Joseph Campbell Company, \$3000.00 to the Department of Agricultural Engineering, for research on mechanical harvesting of okra.

Pickle Packers International, Inc., \$400.00 to the Truck Experiment Station, for research involving brining of experimental pickle lines.

National Association of Artificial Breeders, \$500.00 to the Department of Dairy Science, for research in estrus synchronization in dairy cattle.

Abbott Laboratories, \$750.00, to the Department of Horticulture, for chemical thinning of peaches.

Stauffer Chemical Company, \$200.00 to the Pee Dee Experiment Station, for conducting tobacco wire-worm test.

Stauffer Chemical Company, \$500.00 to the Department of Entomology and Zoology, for research with their experimental insecticides and miticides.

Stauffer Chemical Company, \$500.00 to the Department of Agronomy and Soils, for herbicide evaluation experiments on agronomic crops.

FORMER CLEMSON DEAN RECEIVES HONORARY DEGREE

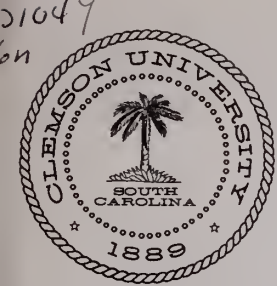
On March 25, 1969, Emory and Henry College observed the 130th anniversary of its Charter Day. On this occasion it conferred honorary degrees upon three distinguished Alumni, one of whom was Dr. Jack K. Williams, former Dean of the University at Clemson and now Academic Vice President at the University of Tennessee. Dr. Williams was awarded the degree of Doctor of Letters.

JOINTLY SPONSORED LECTURE

Dr. John Eric Wilson, Acting Director of the University of North Carolina Neurobiology Program, will speak on "Chemical Correlates of Learning and Memory" at a public lecture in Brackett Hall Auditorium at 8:00 P.M. on April 24. This lecture is sponsored by the College of Agriculture and Biological Sciences, the School of Education, and the University Lecture Series Committee. Students and faculty are cordially invited to attend.

CALENDAR OF CAMPUS EVENTS

Apr.	14-19	M-Sat		Clemson Week Around the World
Apr.	14	M	4:00 p.m.	825 Agronomy Seminar Program - Jerry C. Walker "Pesticide - Environment Interactions." Room A-203, P&AS Bldg.
Apr.	15	Tu	12:00 Noon- 1:30 p.m.	Women of Teaching Faculty Luncheon, Clemson House
Apr.	15	Tu	4:15 p.m.	Faculty Senate Meeting, Olin Hall Auditorium
Apr.	17	Th		ROTC Recognition Day
Apr.	21	M	4:00 p.m.	825 Agronomy Seminar Program - Benjamin C. Morton "The Relation of Plant Silica to Other Chemical Constituents and to Animal Performance." Room A-203, P&AS Bldg.
Apr.	21	M	7:00 p.m.	Annual Sigma Xi banquet at the Clemson House. Speaker will be John D. Combes, Institute of Archaeology and Anthropology, Univ. of South Carolina.
Apr.	22	Tu	7:30 p.m.	Speakers Bureau - Art Linkletter - Tillman Hall Auditorium. Topic: "The 'Tube' and American Manners, Morals, and Politics."
Apr.	25	F		Dental Aptitude Test, Room 20, Tillman Hall
Apr.	26	Sat		Graduate Record Exam. Room 20, Tillman Hall
Apr.	28	M		Examinations begin
Apr.	28	M	4:00 p.m.	825 Agronomy Seminar Program - Delano V. Fraley - Book Report: "Hunger Signs in Crops"(H. B. Sprague, Ed.); Alton B. Jeffords - Book Report: "Role of Soils and Sediment in Water Pollution Control" (G. W. Bailey); Stanley J. McElveen - Book Report: "Changing Patterns of Fertilizer Use" (L. B. Nelson) Room A-203, P&AS Bldg.



CLEMSON NEWSLETTER

INFORMATION FOR THE STAFF OF CLEMSON UNIVERSITY

Vol. 8 No. 17

CLEMSON UNIVERSITY LIBRARY
SOUTH CAROLINA ROOM
May 1, 1969

MAY 1 1969

CODE OF LAWS AMENDED

In response to recommendations from Clemson University, the South Carolina Legislature amended the Code of Laws to permit procurement of liability insurance by institutions of higher learning in the State.

Liability insurance has been secured by the University providing benefits and protection to all faculty, staff and student employees (during working hours) who may be legally liable to third persons who are injured or killed or whose property is damaged as a result of actual or alleged negligence of the employee in the performance of his or her regularly assigned duties. Additionally, coverage is provided against false arrest, detention or imprisonment, malicious prosecution, libel, slander, defamation, violation of right of privacy, wrongful entry or eviction or other invasion of right of private occupancy. Coverage is also provided to those who may become liable in the handling of fissionable materials.

Faculty and staff members should be aware that the protection provided does not include second party (or fellow employee) coverage. Students (when not in employee status) and non-University employees are considered as third parties and coverage is provided for benefit and protection against loss from suit by these persons.

SPECIAL DEDUCTION OF SUMMER INSURANCE PREMIUMS FOR TEACHING FACULTY

1. The last salary check (1/18 of contract salary) for the academic year 1968-69 will be issued on May 9 to each member of the faculty who is paid on an academic year basis.

2. The Accounting Division will deduct authorized insurance premiums for the months of May, June and July from the salary checks to be issued on May 9. The August insurance premiums will be deducted from the August 31 salary check (the first check for the 1969-70 academic year).

3. Any member of the teaching faculty who will not return for the 1969-70 session may continue his insurance coverage through August 31, if he so desires, by delivering a check in the correct amount to Mr. W. J. Stamey in the Personnel Office prior to May 9, 1969. The check (or checks) should be payable to the insuring organization, not to Clemson University.

4. Any member of the teaching faculty who desires to cancel or reduce his insurance coverage effective in May, June or July must forward a written authorization to Mr. Stamey not later than April 30, 1969.

TO ALL FACULTY PARTICIPATING IN 1969 COMMENCEMENT

Graduation exercises will be held for the first time in the Littlejohn Coliseum. The general plan is for faculty members to form (see diagram) in the street nearest the tunnel and to face west. Graduates will form (see diagram) in the same street, facing east. The platform party will assemble in the two dressing rooms (opening on the tunnel) on the ground floor. As usual the order of march will be:

Platform Party, Faculty, and Graduates.

All will move through the tunnel to their respective places:

Platform Party to the stage; Faculty will move through the tunnel, across the basketball court, and into the stands behind the stage; the Graduates will be seated on the basketball court.

Faculty members are asked to report promptly at 10:30 a.m., Friday, May 9, to their respective school or college marshals, namely

Professor J. M. Stepp -- Agriculture and Biological Science
Professor I. A. Trively -- Engineering
Professor T. A. Campbell -- Industrial Management and Textile
Science
Professor L. D. Huff -- Arts and Sciences
Professor E. A. Gunnin -- Architecture
Professor L. H. Davis -- Education
Professor Aileen Prevost -- Nursing

Also faculty members are asked to come to the Coliseum dressed in academic attire because there are no facilities for depositing and securing civilian apparel. Likewise, faculty members are requested to observe certain uniformities respecting the clothing worn with academic attire:

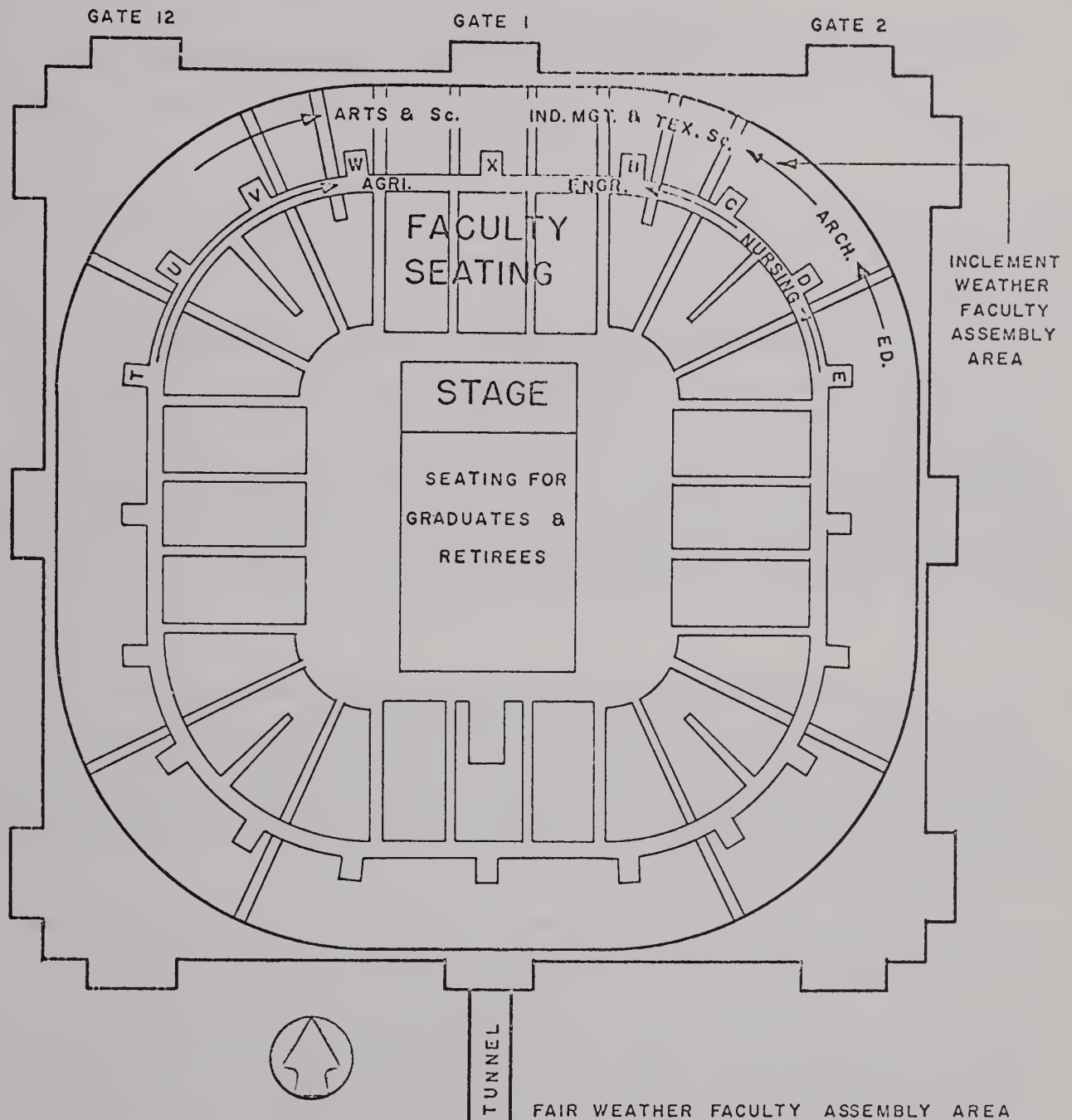
- a. Women should wear dark dresses and dark shoes with low or medium heels. Men should wear dark shoes and preferably dark trousers. Coats need not be worn except in the case of those wearing Master's gowns; dark coats or blouses with dark sleeves are needed with these.
- b. Caps should be worn with the long point to the rear, the tassel should be hanging to the left.

Faculty and candidates should march in an orderly and dignified fashion, maintaining an interval of one arm's length from the person in front.

Inclement Weather Procedure

In the event of rain, faculty members will enter Littlejohn Coliseum by Gate 1 (N side) and assemble in the corridor between Portal V (NW side) and Portal C (NE side). Signs will indicate points of assembly in the corridor (see diagram). The Faculty will march through Portal X and sit in the same area reserved for the Faculty in normal weather.

LITTLEJOHN COLISEUM



GRADUATES
RETIREES

AGRICULTURE
ENGINEERING
ARTS & SCIENCE
ARCHITECTURE
IND. MGT.
TEXTILE Sc.
EDUCATION
NURSING

"G" STREET

PHYSICAL PLANT DIVISION
CLEMSON UNIVERSITY - CLEMSON, SC
DATE: 4-15-69 BY: CKH

AMERICAN COUNCIL ON EDUCATION SPECIAL REPORT

The following is reprinted from an American Council on Education Special Report:

Black Studies Programs and Civil Rights

On March 5, 1969, the Office for Civil Rights of the U.S. Department of Health, Education, and Welfare warned all colleges and universities participating in Federal assistance programs against violating the Civil Rights Act of 1964 when establishing black studies programs. The theme of the annual meeting program of the American Council on Education, to be held in Washington on October 8-10, 1969, is to be "The Campus and the Racial Crisis" and will deal in part with black studies. Because the HEW memorandum raises immediate questions, it seems useful to provide now for ACE members a document based on some of the materials being reviewed for the meeting.

Text of the Memorandum from the Office for Civil Rights, dated March, 1969

It has come to our attention that many colleges and universities are initiating special programs for Negro and other minority group students. These programs range from those that will help the minority student who may have unique problems to those that look to the establishment of a separate school on campus solely for the use of the minority student. We wish to make you aware that, for whatever minority group is sought to be served, certain actions on the part of an institution of higher education constitute a violation of compliance requirements of Title VI of the Civil Rights Act of 1964.

1. **Separate Housing for Students Based on Race**—All housing which is owned, operated or supported by the institution or a public agency must be available to all students without regard to race, color or national origin and assignment to such housing must be made in a nondiscriminatory manner.
2. **Separate Social Activity Space**—Where the institution donates or otherwise makes available institution-owned facilities or land for student use or activities or where it provides funds or other financial assistance to acquire or operate facilities for such activities, it must be assured that the activities are to be operated without discrimination based on race, color or national origin.
3. **Separate Colleges, Schools or Institutes**—Every service and benefit offered by the institution to students must be open and available to all students without regard to race, color or national origin.

The Office for Civil Rights has encouraged, and will continue to support, the institutions' efforts to recruit, enroll and matriculate "high risk" students, minority or otherwise, and to offer such students a well-rounded and relevant social and academic environment on campus. However, we must enforce the Congressional intent of prohibiting Federally assisted institutions from offering services and benefits which result in segregation on the basis of race. We realize that each institution is confronted by separate and unique problems, and we are prepared to discuss the legality of any program with individual college representatives. Mr. Solomon Arbeiter, the Higher Education Coordinator of my office, is the individual to contact in this regard. Mr. Arbeiter's telephone number is (202) 963-4418.

A.C.E. SPECIAL REPORT (Continued)

Black Studies Programs and Civil Rights Violations

W. TODD FURNISS

Director, Commission on Academic Affairs

The warning issued on March 5, 1969, by the Office for Civil Rights of the Department of Health, Education, and Welfare indicates that three specific practices of some colleges and universities constitute violations of the Civil Rights Act of 1964 and thus may jeopardize the eligibility of the institutions to qualify for Federal funds. The practices all concern the establishment of programs or facilities on the basis of race: separate housing for students; separate social activities space; and separate colleges, schools, or institutes. The warning poses some possibly difficult problems for institutions like Antioch, Harvard, Berkeley, and Federal City College in the District of Columbia, which have already adopted or are now considering the adoption of "black studies" programs with one or more of the prohibited features.¹ Others, like Yale, Cornell, and a large group of colleges which so far have only instituted a few courses that are open to both white and black students, may for now be avoiding Civil Rights Act problems. But many of the institutions in this group are encountering continuing pressure for separate programs, faculties, and facilities for black students; some of them are already operating special programs for high-risk black students both before and after their admission to college; and a few are considering whether special preferences based on race are to be incorporated into the policies and practices of the institution as an entity within the community—as employer, investor, or force in community planning. How should they respond to these pressures?

The issue of Federal funding and the possible violation of the Civil Rights Act of 1964 is by no means the only—or even the most important—issue raised by black studies. The black student activist would likely put Federal funding very low on the priorities for his attention. The average faculty member is likely to be more concerned about the quality of the curriculum. Others, inside and outside the college, will be concerned about the redress of wrongs and the mechanisms for redress. And still others will consider only such issues as integration versus separatism, or responses made to demands of one minority as offering precedents for meeting possible demands of other ethnic minorities—Mexican-Americans, American Indians, Jews, foreign students, or even the recently formed Queens College group I.R.I.S.H. Thus, as college and university presidents, curriculum committees, and others consider their practices, adopted or proposed, in the light of the Civil Rights Act, they will have also to weigh other factors. What follows is an attempt to isolate these factors by describing and categorizing the curricular responses made thus far to the problems of one minority in America, the Negroes.

This review begins with the standard curriculum, which forms the academic base of most American colleges and universities, a curriculum designed by whites for whites and containing little information about historical or present-day black experience. The two principal modifications, which I call Black Studies A and Black Studies B, are described next, and are followed by a summary of the issues that seem still to be unsolved.

¹Antioch, for its black studies institute and associated dormitory facilities; Harvard, for the proposed "social and cultural center for black students—something of a counterpart to Hillel House for Jewish students, the Newman Center for Catholic students, and the International Student Center." See below for Berkeley and Federal City College. According to the *Chronicle of Higher Education* (March 10, 1969) "about a dozen" private institutions besides Antioch have also been questioned about activities that exclude white students. The names of the institutions have not been released.

A.C.E. SPECIAL REPORT (Continued)**THE STANDARD CURRICULUM**

For simplicity I shall use "white colleges" to include those four-year colleges and universities that have traditionally enrolled a preponderance of students other than Negroes. The number in America today is about 1,400. At the latest count, the colleges traditionally enrolling a predominantly Negro student body number about 110. Virtually all offer what I have called the "standard curriculum," devised by white scholars in the sciences, history, the social sciences, literature, the arts, and the professions. Commonly the materials used, except when they deal at an advanced level with foreign cultures, were prepared by white Americans. The aim of the institutions is to ready their students to live and work in American society as it now is.

The standard curriculum, besides its white orientation, is predicated on minimum requirements for admission which, though varying from institution to institution, are stringent enough to keep out those whose native ability may be good but whose standard test scores and academic preparation fail to disclose it. Further, access to an increasing number of desirable jobs in America requires at least a two-year collegiate certificate, which, again, has its academic base on the standard curriculum.

Several arguments against maintaining the standard curriculum have been advanced. For example, it is said to inform students inadequately about the historical or contemporary role of Negroes in America. For this reason, it is often called a "racist" curriculum. The curriculum is criticized because it is taught in terms and with materials that, it is claimed, cannot be readily grasped by many Negroes. Also, opponents assert that it is designed only to prepare white students for a white world and, therefore, neglects important needs of white and black students who are preparing to work with or in the black community. A final criticism, not curricular in character, applies to white colleges and claims that these institutions provide no social center or retreat for minority black students where they can, when they wish, be themselves and take off the masks they assume when they deal with whites.

Many thoughtful educators have recognized these criticisms as valid and have proposed what I have called Black Studies A.

A distinction needs to be made here. "African Studies" is a term proper to the standard curriculum and refers to studies of Africa—its history, culture, language, geography, economics, and so forth. It is the study of a foreign, not an American, culture. There are now 13 African Studies language and area centers on American campuses, all funded in part by the Federal government. The centers may provide their campuses with limited services for black studies curricula, sketching in the African background of the black American experience, and they may open their language courses to the general student. In what follows, I preserve this common definition of African Studies. For studies dealing principally with American Negroes, I have chosen to use "black studies" rather than the equally common "Afro-American studies," chiefly to avoid confusion with African Studies.

BLACK STUDIES A

Black Studies A is a modification of the standard curriculum designed to correct faults with respect to the black experience in this country. Curricular modifications at present range from a single course in Afro-American history to a bachelor's degree program which comprises related courses in several fields. Because some important elements are *not* included within Black Studies A, it is worth listing what is included.

The elements of Black Studies A fall into four categories: course work and programs for credit; workshops and institutes; cultural adjuncts; and social programs. The credit programs are based on courses, the most common being those in the history of the Negro in America and carrying titles such as "The Negro in the American Experience" and "Afro-American History." Next most common are courses in literature: "Afro-American Literary Relations," "Black Literature and Culture," "Recent

A.C.E. SPECIAL REPORT (Continued)

Black-American Literature." And there is a scattering of courses in other fields: "The Political Economy of Racial Discrimination," "Negro Politics in Urban America," "The Sociology of Poverty," "Afro-American Contemporary Politics," "The Negro in Music," and the like.

Some of these courses incorporate an especially noteworthy element: they are designed to give students off-campus experience in the black community. The purposes include: introducing students firsthand to the community they are studying, providing data for research programs (the ghetto as laboratory), and helping the black community.

Generally, the courses offered are not integrated into programs, either as minors and majors for undergraduates or as minors for graduate students. With the lead given by Stanford, Yale, Cornell, and Harvard, such concentrations may eventually become more common, but at least two serious problems—staff and costs—may make such development slow.

To institute a program of courses, especially if it is at all comprehensive, can be a costly enterprise. One needs only to look at Harvard's estimates of the new faculty needed to get its program under way: ten new positions the first year. And even when the money is available, qualified staff may not be. Complaints of the predominantly Negro colleges over the raiding of their better faculty are being heard in increasing numbers. The upshot of the combination of high cost and scarcity of staff is that even those institutions persuaded of the need for moving into Black Studies A have sometimes had to settle for very little, perhaps only a series of lectures by visiting speakers each semester.

In a few of the institutions adopting the Black Studies A approach, training black students for the professions such as medicine, law, and business will raise consideration of the need for special programs. To the extent that curricular changes are called for, the courses involved will need to deal with the application of professional knowledge to the special problems of the black community.

Black Studies A has an interesting variant, and perhaps a surprising one. Predominantly Negro colleges might have been expected to develop their own specialized curricula, very different from anything established or contemplated on white college campuses. This seems not to be the case. In the summer of 1968, the Southern Regional Education Board (SREB) assembled a group to recommend appropriate curricula for the black colleges.² They identified the principal problem of existing curricula as their orientation toward too narrow a group of occupations (teaching for women, the minor white-collar jobs for men) and came out strongly for what looks very much like Black Studies A, the principal orientation for which is the preparation of students for productive lives in our society as it is, with some, but secondary, attention to the history and current problems of the Negro. Thus, the recommendations of the SREB conference do not occupy a separate taxonomic category.

On several campuses, black and white, Black Studies A activities go beyond courses and in addition include noncredit workshops and conferences dealing with special problems of the black community or of black studies. Ordinarily, these bring together limited categories of participants (e.g., health workers, educational administrators, teachers, librarians) to work out a program of study, to foster the production of educational materials, or to plan a program of action in the community. Several such workshops were funded by the National Endowment for the Humanities in the summer of 1968. The number of such activities may be expected to increase.

Colleges and universities have also shown some eagerness to provide for general audiences, on campus and off, a variety of informational and cultural activities through lectures, concerts, dramatic presentations, music festivals, and exhibits. A good many of these cultural presentations took place during Black History Week, February 7-15, 1969.

²*New Careers and Curriculum Change* (Atlanta, Ga.: Southern Regional Education Board, 1968).

A.C.E. SPECIAL REPORT (Continued)

A final, but currently very important, note on Black Studies A: Those who have studied the problems of the black student on the white campus recognize his special and sometimes serious social problems and have agreed that the institution should attempt to accommodate them. Princeton, for example, has involved local black families with both the student and the institution. In other instances, separate dormitory or social facilities have been prescribed, but these latter provisions run directly counter to the terms of the Civil Rights Act as interpreted in the memorandum from the Office for Civil Rights. Whether a court case will be needed to determine the propriety of such attempts at social segregation remains to be seen, but it is worth noting that those who have proposed or adopted such segregation in their Black Studies A programs have done so only at the social level but not at the curricular level.

BLACK STUDIES B

The situation with the proponents of Black Studies B, however, is quite different. The principal characteristic of Black Studies B is a segregated academic program for black students only. Usually coupled with Black Studies B are demands for a separate "black studies department," with a program determined solely by black students and faculty and taught by black faculty whose qualifications are to be determined by blacks alone.

Whereas it is possible to identify curricular elements of Black Studies A, it has been very difficult until recently to say what Black Studies B might include. Our ignorance stems from the brevity and opacity of most of the proposals. The rhetoric of those making demands and often of their supporters and the tactics that have sometimes accompanied the demands have raised a host of unanswered questions. Trustees, legislators, and the public have felt forced to resist in case it should turn out that what is wanted is not a reasonable, well-taught academic program but something else—a base for teaching revolution, perhaps, or a center from which attacks on any part of the society could be made under the protections of academic freedom. And yet, we do have some indications of what a Black Studies B curriculum could be, two of which are worth noting in some detail: the proposals at Berkeley and Federal City College.

The Berkeley Proposal

On February 6, 1969, at the University of California, Berkeley, Dean Walter D. Knight distributed to the chairmen of departments in the College of Letters and Science a "Proposal for the Establishment of a Department of Afro-American Studies."³ The basis for the proposal was a document prepared in the spring of 1968 by the Afro-American Students Union at Berkeley. As presented, the program differs in several important respects from earlier programs on the campus (Black Studies A courses) in its aims: "Creating a *regular* Department of Afro-American Studies, staffed predominantly by black scholars and oriented toward the black student body, will provide more certainly for the unique educational needs of black students than any sort of *special* program, no matter how excellently designed."

Faculty, principally blacks, will be recognized scholars who will, if possible, hold joint appointments with disciplinary departments, but the faculty will also include "scholars, artists, writers and other intellectuals who have mastered a body of knowledge by means other than the traditional academic graduate study. The general pattern of appointment recommended for these teachers is that of lecturer."

The curriculum "is designed to focus specifically on understanding and developing the history, culture, language, and contemporary economic, political, and social conditions of black people in Africa, the New World, and particularly the United States. Further, such a course of instruction must be

³On March 4, the Academic Senate voted its endorsement of an ethnic studies department of which the Department of Afro-American Studies would at first be one of four divisions, perhaps later to achieve departmental status if the department of ethnic studies becomes a college.

A.C.E. SPECIAL REPORT (Continued)

pursued from the black perspective, that is, it should adopt the viewpoint of black culture and orient itself toward the learning needs of black students and the leadership needs of the black community."

More specifically, the student will do half his work in the freshman and sophomore years in special courses in the department. After that, he may concentrate in one of the standard disciplines (e.g., political science or economics, with a faculty preferably holding joint appointments) or in black culture. His major program, whatever it is, will "assure him of a training sufficient to enable him to go on to graduate study in his discipline of concentration, should he wish to do so."

Admission to the university will be handled by existing procedures (Berkeley's Educational Opportunity Program, in operation for some time, will take care of the poorly prepared); admission to the Afro-American Studies major will be determined by the faculty of the department under ordinary procedures of the college. In addition, there will be a deliberate attempt to involve the student with the local black community.

As might be expected, the cost of the program will not be insignificant. It is estimated that it will require at the start the equivalent of ten faculty positions, and it is planned to make classes small and contacts between faculty and students frequent. No estimate is given of the costs of new materials, library additions, and the research that inevitably would accompany the new venture.

Courses prescribed for the first two years include "Orientation to Black Studies Program (an overview of the Black Experience from economic, historical, political and sociological perspectives)," "The History of the United States (A Black Perspective)," "Introduction to Black Culture," "Sociology of the Black Family," "Racism, Colonialism, and Apartheid," "Economics of Racism," "Urbanization of Black People," "Psychology of Racism," and a noncredit Freshman-Senior Seminar that will focus on "academic, personal, social and other problems experienced by freshmen." For upper-division students, a list of offerings includes approximately 30 courses dealing with aspects of the black experience, to be taught in regular departments.

How far does the Berkeley program go toward meeting the common demands for Black Studies B as outlined at the opening of this section? It will be a separate academic division and perhaps ultimately a department; its faculty are to be blacks in most cases; it recognizes and hopes to meet the special problems of blacks as students; its aim is to prepare them for active lives in a wider world than the white world only, but not exclusively for the black community; its admissions standards may be different from those of the rest of the university, but consistent with university policies. Among items not included is student control: participation is implied but control remains in the hands of the faculty. And no special provision is made for a social center for black students.

The place of the essential element of Black Studies B, separateness, is not wholly clear. On March 4, speaking of the ethnic studies proposal, Chancellor Heyns said, "Any unit created must not be segregated as to faculty or students." The three "major goals" of the Afro-American Studies proposal are, *in order of priority*, to provide "an intensive, high quality program of higher education for black students," to develop "an intellectual field of study which has hitherto been grossly overlooked," and to educate "white students and faculty in the culture of their compatriots." Although white students are to be served, some portions of the program (for example, the Freshman-Senior Seminar) seem to be designed for black students only and to be inappropriate for whites. For this reason and because the program is to be "oriented toward the black student body" and its curriculum is to "adopt the viewpoint of black culture and orient itself toward the learning needs of black students and the leadership needs of the black community," it falls into category B rather than A.

Federal City College Proposal

In a different way, the proposal for a Black Studies Program at Federal City College in Washington, D.C., also falls within this category, but it presents some special problems of classification. In order to

A.C.E. SPECIAL REPORT (Continued)

understand what these are, we must approach two elements of the proposal separately: the program itself, and its stated aims. For this review, it is of significance that the initial student body of 2,200 (1,600 full-time equivalent; the college opened in the fall of 1968) is approximately 98 percent black; the faculty is divided about equally between black and white.

The proposed program is a total one, covering four college years. Its focus is on the acquisition and application of knowledge for technical and social change in those areas of the world inhabited by black Africans and the descendants of black Africans in the Caribbean and the Americas. One might, therefore, compare the program to similar ones focusing on other areas of the world, for example, South Asia: providing courses about the culture, language, politics, and economics of the area, along with courses in technical, political, and cultural fields. Together, the two kinds of courses are designed to prepare the student to give effective help to the people of the area in overcoming their local problems, whether of health or economic development or education.

In the Federal City College proposal, the first year's offerings consist of quarter-long courses in six areas:

The Pan-African world	African peoples and world reality
History and Society in the African World	Uses and Techniques of Pacification
African Civilization	Politics of Dependence
Contemporary Prospects in the Pan-African World	Quest for Unity and Solidarity: African Peoples in the Third World
Natural sciences	Languages
Uses of Science in History: A Basic Course	Swahili
History of Mathematics, Biological Sciences, Physical Sciences (one to be chosen)	Kikuyu
Application and Implementation (one of the science areas)	Arabic
	French
	Spanish
Communicative skills	Portuguese
Uses of Language	
Seminar Workshop in Development of Communicative Skills	Physical development
Compositional Procedure	(An assortment of sports and skills, including dance)

The second year continues the language and physical development components and adds the following areas:

Interpretation of the African Experience	Seminars in Developmental Skills
Cultural Concepts of African Peoples	(Interpretative Skills, Technical Skills, and Applied Skills in one of the areas of mathematics or science)
World's Great Men of Color	

In the third year, the student is to begin a major in one of the three "cores" under the general title "Nation Building": Technical Core, Political Core, Cultural Core. In the fourth year, emphasis is on "the development and acquisition of advanced skills with direction always toward applications." No courses are specified.

The curriculum outlined above might be thought of as a four-year preparation for Peace Corps work in the areas inhabited by black Africans and by their relatives in the New World. It does not exclude white students; in fact, no distinction between white and black is made in the program.

However, if one looks at the proposal apart from the program details, one may doubt the appropriateness of the program for a white student. For example, the "focus" of the first-year program is given as "Decolonization of the mind. Development of the ways of looking at the world (Interpretative Skills)." In the introduction, we find these statements: "If education is to be relevant to Black

A.C.E. SPECIAL REPORT (Continued)

people, it must have a two-fold purpose: revolution and nation-building. If the education of Black students is to be meaningful, it must direct these students toward the destruction of the forces of racism, colonialism and oppression that continue to drain Black people all over the world; and it must develop in them the skills which will allow them to conceptualize and structure the projections of future Black existence." The introduction goes on:

The main emphasis of Black Studies will be toward the liberation of the African world. Since education should serve to expand the minds and spheres of action of the people involved in it, Black Studies must prepare Black people for the most complete self-expression, which must, in fact, be liberation and self-determination. Black Studies will take the position that the total liberation of a people necessarily means that those people separate themselves in values, attitudes, social structure and technology, from the forces which oppress them. Concurrent, then, with the liberation of African people must be the construction of a durable, productive and self-sufficient nation. The building of a lasting and meaningful African nation must be the end-product of the Black Studies Program.

From these statements, it is clear that (a) the program is designed for black students only and thus is a variety of Black Studies B; and (b) no matter how much it may appear to resemble a South Asia or Peace Corps program, it differs in one conspicuous way: Neither the student of South Asia nor the Peace Corps volunteer is expected or required to be or to become an Indian to do effective work in India; the burden of the Federal City College proposal is that the black student must become, himself, a member in full of the "African nation" before he can render service.

The Differences

These signal differences seem to distinguish between the Berkeley and the Federal City College proposals. The first--Berkeley--calls for special work for the black student to free him from the debilitating effects of his background so that he may apply his skills in white or black communities with some measure of academic detachment. The Federal City College program seems to say that the student will be freed from the debilitating effects of his background but, instead of acquiring academic detachment, he will have substituted a commitment to a fresh black perspective.

To push the consequences of this distinction further: A trend in American education over the last decade has been to prepare students as "world citizens," to break down some of the more obvious chauvinistic tendencies we all acquire as we mature, but to preserve understanding of and sympathy for the best in our own culture. The chief means of bringing about this "decolonization" of our minds is a broad and liberal education, to cultivate in the student a sense of objectivity in observing in perspective both his own and other cultures. Of the two Black Studies B programs, only that at Berkeley seems consistent with this aim. Thus, programs like the Federal City College proposal will unquestionably raise serious doubts about their propriety in an academic setting.

THE ISSUES

From this review, it is clear that issues with respect to black studies and related programs go beyond those raised by the memorandum from the Office for Civil Rights and that many of these issues are as yet unresolved. The issues may be summarized as follows:

Separate facilities. One of the issues raised by HEW, the question of separate social and living arrangements, could be settled solely on the basis of the provisions of the Civil Rights Act of 1964. However, at least some of the proposals for such facilities rest on the considered judgment of college faculties that there is a sound educational and social justification for them.

A.C.E. SPECIAL REPORT (Continued)

Separate academic programs. Between providing a precollege program for blacks (limited to them perhaps because the community may have no whites in the same educational plight) and establishing a college curriculum specifically excluding nonblacks there are some gradations of exclusiveness that may or may not run counter to the Civil Rights Act. Even the totally exclusive programs have sometimes been advocated on educational grounds.

Separatism and civil rights. The American community is currently engaged in a new debate over "separatism" as distinguished from "segregation." Segregation is involuntary; separatism in this sense is the voluntary separation of the blacks from the white community. In today's uncertainties, college decisions about separate facilities and academic programs may be based on today's educational theory or on civil rights laws and may be subject to modification if the current debate results in fresh social theories or modified laws.

Primary commitment. An academic program that requires a primary commitment to racial identity rather than to academic principles raises a very difficult issue. In the history of American education we have seen parallels in institutions basing their academic programs on religious commitment. Comparisons might be instructive.

Autonomy. Totally autonomous programs have no precedent in our colleges and universities. Because members of a unit are better equipped in certain matters than anyone else in the institution, a large measure of freedom may be granted in establishing a curriculum, in determining which students shall be eligible to enter it, in selecting and promoting faculty, and in allocating the unit's budget. Nevertheless, this freedom is exercised within parameters based on institutional aims and resources and embodied in procedures and regulations. Is there any compelling reason to exempt black studies from such parameters?

Appropriate courses and materials. Although the standard curriculum is generally conceded to need modification toward what I have described as Black Studies A, open to all students, there are as yet few guides to appropriate courses and materials involving the black experience. Some bibliographies have been published and a few institutes have been held to consider these matters, but little is available to guide those entering unfamiliar territory.

Availability of staff. Faculty competent to teach Black Studies A courses are in short supply. Black colleges fear a "brain drain." Many colleges find themselves faced with appointing as faculty those who do not have the qualifications they are accustomed to demand. Although Berkeley's proposal provides for "lecturers," other institutions may have to work out different arrangements if they choose to add such faculty for black studies.

Costs. Even with the best will in the world, some institutions will be unable to make more than token moves toward satisfying demands for black studies. Financial limitations on educational programs are not easily overcome. The issue here will be priority. Thus usually it will be resolved after a collective consideration of alternatives. The allocation of funds may, then, become a test of power.

Political considerations. Clearly, in some institutions the demands for a black studies department are not really proposals for curricular change but rather a set of "nonnegotiable" political demands to provoke retaliation from faculty and administration or the public. These will inevitably call forth political rather than curricular responses.

Definitions. Basic to most of the problems that have arisen in connection with black studies on our campuses is the question of definitions. As the foregoing makes clear, the names "black studies" and "Afro-American studies" or a term like "the black perspective" are understood variously. It is to be hoped that future discussions on campus or between campuses and the Office for Civil Rights will put a high priority on agreement on terms.

A.C.E. SPECIAL REPORT (Continued)

In the past year, some progress has been made toward correcting deficiencies in the standard curriculum. Some of the modifications have been minor; others have struck out into unexplored territory, encountering difficult and sometimes unexpected problems along the way. It should be clear, however, that although the Civil Rights Act of 1964 may prohibit certain features suggested or adopted for black studies, there still remain a wide range of acceptable programs that can be established without regard to possible legal violations. It would be unfortunate if the recent memorandum from the Office for Civil Rights were to halt or delay consideration of such programs.

MINUTES OF THE MARCH RESEARCH FACULTY COUNCIL MEETING

The Research Faculty Council convened its March meeting at 4:00 p.m., March 25, 1969, in Room 28 Tillman Hall.

The Council adopted the following resolution concerning the solution of the housing of graduate students during vacation and intersession periods. "The Research Faculty Council commends the University Administration for the steps taken to solve the problem of graduate student housing on a continuous-occupancy basis. The memorandum from Dean Brownley of March 10, 1969 clarifies some of the points of concern by the Council as to the conditions of occupancy. The Council's immediate concern (called to the attention of the Administration in the 1967-68 academic year) for a satisfactory arrangement for occupancy of rooms during intersession or vacation periods has been satisfied. However, the Council is obliged to point out that the present demand for rooms in the dormitory by graduate students (approx. 65) is not indicative of the future needs, especially, with the arrangement for continuous-occupancy."

The Research Faculty Council was informed that the Graduate Council had rejected its recommendation that the M.S. designation be reserved for those degrees requiring a thesis. Action on publication of information on Ph.D. final oral examinations was postponed.

An ad hoc committee of H. W. Graben, J. W. Hubbard, and W. P. Byrd (Chairman) presented a report of a study, with recommendations, concerning Clemson University's annual leave policy. The report was discussed and adopted by unanimous vote.

A report from an ad hoc committee concerning Graduate School admission procedures was presented and discussed. The committee report concluded that the current procedures are generally satisfactory.

NOTICE TO INTERESTED FACULTY

There are still a limited number of places available for the 1969-70 session of the Fort Hill Day School. This school has been organized to offer a first grade of limited enrollment (15) and individualized instruction in the Clemson area, with Mrs. George E. Coakley as teacher. Essentially the program will be a continuation of a local church day-school first grade which has been discontinued. If interested, please contact Dr. Patricia Wannamaker (English and Modern Languages).

CLEMSON PARTICIPATION IN MICROBIOLOGY MEETING

The following papers were presented by Clemson faculty and graduate students at the spring meeting of the South Carolina Branch of the American Society for Microbiology, held at Clemson University, March 28 and 29:

"Kinetics of inhibition of arginine and citrulline uptake by ornithine and lysine in Streptococcus Faecalis F24" - Katherine F. Kelly, graduate student, and Ann W. Baxter, Botany and Bacteriology Department.

"Effect of various cations and amino acid transport in streptococcal protoplasts" - Lindsay J. Forrester III, graduate student; Ann W. Baxter, Department of Botany and Bacteriology.

"Variations in and functions of rumen protozoa" - William Chalupa and graduate students G. D. O'Dell and A. J. Kutches, Department of Dairy Science.

"The role of capsule in protection of Escherichia coli against infection by T2 bacteriophage" - M. J. B. Paynter and H. R. Bungay III, Departments of Botany and Bacteriology and Environmental Systems Engineering, respectively.

"Effects of repeated applications of 2,4-D and trifluralin on the bacteria, fungi, and actinomycetes in the soil" - F. W. Breazeale, graduate student, and N. D. Camper, Department of Botany and Bacteriology.

"Enumeration of total viable bacteria in activated sludge" - D. L. Ewert, Belle W. Baruch Fellow, and M. J. B. Paynter, Department of Botany and Bacteriology.

"Effects of temperature and pH on growth and physiology of Pythium irregulare and P. vexans" - H. F. Cantrell, graduate student; N. D. Camper and W. M. Dowler, Department of Botany and Bacteriology.

"Effects of growth in pentose sugars on rate of arginine degradation in Streptococcus faecalis F24" - Ann W. Baxter, Department of Botany and Bacteriology.

"Microprobe measurements of dissolved oxygen in microbial slimes" - W. M. Sanders III, H. R. Bungay III, and W. J. Whalen - Southeast Water Laboratory, FWPCA, Athens, Ga.; Department of Environmental Systems Engineering, Clemson University; and St. Vincent Charity Hospital, Cleveland, Ohio, respectively.

"The application of systems engineering to a microbial process" - T. B. Young III, graduate student, Department of Environmental Systems Engineering.

NEWSLETTER

The next issue of the Newsletter will be published on August 15, 1969. Academic news items for this issue should be sent during the summer to the Office of the Assistant Dean of the University, 28 Tillman Hall. News items from other areas of the University should be forwarded to Mr. Melvin C. Long, Director of Public Relations, Trustee House.

BOTANY AND BACTERIOLOGY

W. M. Epps (Hd) and Wesley Witcher (Assoc Prof) took part in the meeting of the Forest Pest Committee of the Southern Appalachians held in Cherokee, N. C., Apr. 10.

CERAMIC ENGINEERING

C. C. Fain (Assoc Prof) presented a talk on "Flexi-wall, a New Ceramic Product" at the Southeastern Section Meeting of the American Ceramic Society, Myrtle Beach, Mar. 28.

G. C. Robinson (Hd) presented a talk on "Mechanism of Color Development in Structural Ceramics" at the Southeastern Section Meeting, ACS.

CHEMISTRY AND GEOLOGY

J. C. Fanning (Assoc Prof) presented a paper, "Reactions of Hydrogen Chloride Gas with Solid 1,10-Phenanthroline and 2,2'-Bipyridine Compounds," at the 157th American Chemical Society Meeting, Minneapolis, Minn., Apr. 15.

Technical lectures have been presented by chemistry faculty members to chemistry groups at colleges and universities in the region: J. F. Allen (Assoc Prof), Appalachian State Teachers College, Boone, N. C.; J. C. Fanning (Assoc Prof), The Citadel, Charleston, S. C.; Western Carolina University, Cullowhee, N. C.; and Asheville-Biltmore College, Asheville, N. C.; G. B. Savitsky (Assoc Prof), University of North Carolina at Charlotte, N. C.

The following papers were presented by members of the geology faculty and students at the 18th Annual Meeting of the Geological Society of America, Columbia, S. C., Apr. 9-12:

D. S. Snipes (Asst Prof), "Metasomatism and Granitization at Master's Kiln, Laurens, South Carolina."

R. D. Hatcher, Jr. (Asst Prof), "Stratigraphy and Petrology of the Brevard-Poor Mountain-Henderson Belt, South Carolina."

V. S. Griffin, Jr. (Asst Prof), "Structure of Inner Piedmont Along the Blue Ridge Front, Walhalla, South Carolina."

L. L. Acker (Stud) and R. D. Hatcher, Jr. (Asst Prof), "Relationships between Topography and Structure, Northwestern, South Carolina."

ENTOMOLOGY AND ZOOLOGY

J. H. Cochran (Hd) has been appointed Chairman of the Membership Committee of the Southeastern Branch of The Entomological Society of America.

ENTOMOLOGY AND ZOOLOGY (continued)

Mr. Sam R. Morriss, Chairman of the Southeastern Branch, Entomological Society of America, has appointed Sidney B. Hays (Assoc Prof) Chairman of the Committee on Graduate Student Awards. Also, serving on this Committee is Dr. Charles D. Pless of the University of Tennessee, formerly a graduate research assistant at Clemson University.

The South Carolina Pest Control Association Scholarship of \$200 awarded each year to an outstanding Entomology major was given this year to Miss Nancy Chloe Greene of Central on Honors and Awards Day, Apr. 9.

The Award of a \$50 Bond, sponsored by The South Carolina Entomological Society, Inc., was awarded this year to Thomas Marion Hill of Union.

J. H. Cochran (Hd) and L. H. Senn (Asst State Ent) attended the meetings of the Southern Plant Board in Biloxi, Miss, Apr. 8-11.

ENVIRONMENTAL SYSTEMS ENGINEERING

J. F. Andrews (Hd) was program chairman and presiding officer for a one-day symposium on Chemical Controls in Biological Waste Treatment at the National American Chemical Society meeting in Minneapolis, Apr. 17. H. R. Bungay (Prof) and J. F. Andrews (Hd) presented a paper entitled, "Dynamic Aspects of Microbial Process Control" at this symposium.

A. Ray Abernathy (Assoc Prof) attended the 18th Southern Water Resources and Pollution Control Conference held at North Carolina State University, Raleigh, N. C., Apr. 9-10.

B. C. Dysart (Asst Prof) attended a seminar and lecture course entitled "Operations Research and Systems Engineering in Complex Water Resource Systems" at Case Western Reserve University, Cleveland, Ohio, Apr. 7-9.

MATHEMATICS

C. V. Aucoin (Hd), J. L. Flatt (Assoc Prof), and S. M. Lukawecki (Assoc Prof) attended sessions of the Mathematical Association of America at Rock Hill on Mar. 28. Dr. Lukawecki chaired an organizational meeting of representatives of colleges and universities of higher learning in South Carolina to discuss mutual problems in mathematics, especially those of the first two years of study. A state-wide organization was formally formed and Dr. Lukawecki was elected chairman of a steering committee to carry out the recommendations of the general meeting.

James L. Flatt (Assoc Prof) has been awarded an NSF grant of \$10,709 to direct an In-Service Institute in Mathematics for Secondary School Teachers during the academic session 1969-1970.

MECHANICAL ENGINEERING

James K. Johnson (Asst Prof) has been elected Chairman of the Greenville Section of the American Society of Mechanical Engineers.

E. Harrison (Prof) and W. G. Hudson (Assoc Prof) spoke before a joint meeting of the Pee Dee Section of ASME and Camden Section of the South Carolina Society of Engineering at Hartsville, S. C., on the evening of Apr. 16. The subject of their talk was "Use of the Analog Computer for the Design of Automatic Control Systems."

ON-CAMPUS COMMERCIAL ACTIVITIES

No articles may be sold, subscriptions solicited for periodicals, books, insurance or any other product or purpose on University property without prior approval of the University Administration.

Paragraph 1, Section IV, Student Regulations, shall govern commercial activities in residence halls.

Approval of commercial activities in all other areas and activities on University property shall be granted by the President's Office on recommendation of the Vice President primarily responsible for the administration of the area or activity concerned.

1969-70 OFFICERS ELECTED FOR RESEARCH FACULTY COUNCIL

At the April 15 meeting of the Research Faculty Council the following officers were elected for 1969-70: G. C. Kingsland (Bot and Bact) - Chairman; A. S. Tombes (Ent and Zool) - Vice Chairman; and M. W. Jutras (Agron and Soils) - Secretary.

CLEMSON WEEK AROUND THE WORLD

Sixteen members of the Clemson faculty and staff represented the University at recent Alumni club meetings throughout the country. Thirty-eight clubs observed the traditional Clemson Week Around The World in April with dinner meetings, picnics, drop-ins and special programs. Speakers and the locations they visited were:

President Robert C. Edwards (Chattanooga, Baltimore and Atlanta); Dr. Wallace D. Trevillian (Washington and Boston); M. B. Farrar (Charleston and Kingstree); Ernest Rogers (Baton Rouge-New Orleans, Columbus); Dr. Claud Green (Tifton, Georgia); Dean Walter Cox (Albany); George Moore (N. W. Florida); Coach Frank Howard (Miami, Greenwood County, Williamsburg County, Bamberg County, Marlboro County, Florence County); Coach Art Baker (Central Florida, Newberry County, Clarendon County); George Bennett (Johnson City, Tennessee, Indianapolis); Joe Sherman (Catawba Valley, Greensboro, Charlotte); Jim Burns (Beaufort County); Coach Whitie Jordan (Kershaw County); Clyde Woodall (Laurens County); Coach Banks McFadden (Columbia); and Stan Nicholas (Birmingham).

Other Clemson clubs that met included New York-Connecticut-New Jersey, Tampa-St. Petersburg, North Alabama, Chicago, NASA Virginia, Fort Hill (Clemson University), Wilmington, and Southern California. These meetings featured local speakers on film programs arranged by the Clemson Alumni Office.

CALENDAR OF CAMPUS EVENTS

May	5	M	9:00 a.m.	Educational Council Meeting
May	8	Th	9:00 a.m.	School and College Faculty Meetings
May	8	Th	10:00 a.m.	General Faculty Meeting
May	9	F	8:30 a.m.	Commissioning Exercises, Tillman Hall Auditorium Major Gen. A. J. Beck, Commander, Warner Robins Air Materiel Area, Robins AFB, Ga. will deliver the principal address to students receiving commissions in the Army and Air Force.
May	9	F	11:00 a.m.	Commencement Exercises, Littlejohn Coliseum
May	10-11	S-Sun		Sailing - South Atlantic Intercollegiate Sailing Association. Singlehanded championships at Charleston.
May	16-17	F-Sat		Clemson Children's Theatre Production
May	19	M		First Summer Session Begins Matriculation and Registration
May	20	Tu		Classes Begin
June	5-7	Th,F,Sat		Alumni Weekend
June	8-21	Sun-Sat		Jessi at Clemson
June	25-26	W-Th		Examinations
June	30	M		Second Summer Session Begins Matriculation, new students
July	1	Tu		Matriculation and Registration
July	2	W		Classes Begin
July	4	F		Independence Day Holiday
July	12	Sat		Graduate Record Exam., Room 20, Tillman Hall
July	19	Sat		Classes Meet
Aug.	2	Sat		Classes Meet
Aug.	6-7	W-Th		Examinations
Aug.	9	Sat		Commencement Exercises







